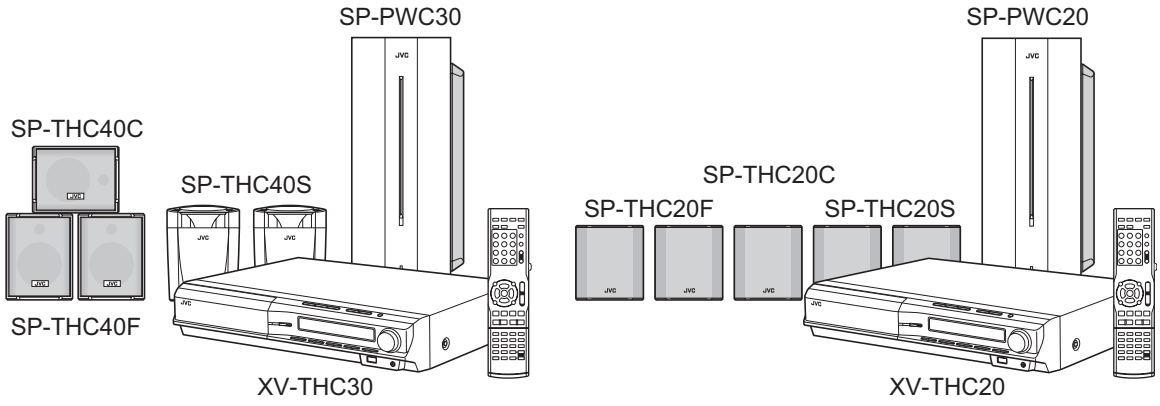
JVC

SERVICE MANUAL

DVD DIGITAL THEATER SYSTEM

TH-C30J,TH-C30C,
TH-C20J,TH-C20C



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

TABLE OF CONTENTS

1 PRECAUTION 1-4
2 SPECIFIC SERVICE INSTRUCTIONS 1-7
3 DISASSEMBLY 1-8
4 ADJUSTMENT 1-29
5 TROUBLESHOOTING 1-33

COPYRIGHT © 2006 Victor Company of Japan, Limited

No.MB506
2006/3

SPECIFICATION

Center unit (XV-THC30/XV-THC20)

Audio section	Total Harmonic Distortion *1	0.02%
	Digital input *2	DIGITAL IN (DBS) (OPTICAL) : -21 dBm to -15 dBm (660 nm ± 30 nm)
Video section	Video System	NTSC
	Horizontal Resolution	500 lines
	Signal-to-Noise Ratio	64 dB
	Video output level	Composite : 1.0 V(p-p)/75 Ω S-video-Y : 1.0 V(p-p)/75 Ω S-video-C : 0.286 V(p-p)/75 Ω Component-Y : 1.0 V(p-p)/75 Ω Component-PB/PR : 0.7 V(p-p)/75 Ω
	Video input sensitivity/Impedance (VCR IN)	Composite : 1.0 V(p-p)/75 Ω S-video-Y : 1.0 V(p-p)/75 Ω S-video-C : 0.286 V(p-p)/75 Ω
USB storage	USB specification	Compatible with the USB 2.0 Full-Speed
	Compatible device	Mass Storage Class
	Compatible file system	FAT16, FAT32
	Bus power supply	Max. 500 mA
Tuner section	Tuning Range	FM : 87.5 MHz to 108.0 MHz AM : 530 kHz to 1 710 kHz
General	Power Requirements	AC 120 V , 60 Hz
	Power Consumption	25 W (at operation) 0.6 W (in standby mode)
	Dimensions (W × H × D)	400 mm × 85 mm × 316 mm (15-3/4 inches × 3-3/8 inches × 12-1/2 inches)
	Mass	3.8 kg (8.4 lbs)

*1: This value is measured at System cord CONNECTOR for reference.
*2: Corresponding to Linear PCM, Dolby Digital, and DTS Digital Surround (with sampling frequency -32 kHz, 44.1 kHz, 48 kHz)

Subwoofer (SP-PWC30)

Amplifier section	Front/Center/Surround	167 W per channel, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion.
	Subwoofer	167 W, RMS at 3 Ω at 100 Hz, with 10 % total harmonic distortion.
Speaker section	Speaker unit	16 cm (6-5/16 inches) Bass-reflex
	Power Handling Capacity	170 W
	Impedance	3 Ω
	Frequency Range	30 Hz to 200 Hz
	Sound Pressure Level	73 dB/W·m
General	Power Requirements	AC 120 V , 60 Hz
	Power Consumption	160 W (at operation) 0 W (in standby mode)
	Dimensions (W × H × D)	170 mm × 411 mm × 458 mm (6-3/4 inches × 16-3/16 inches × 18-1/16 inches)
	Mass	11.5 kg (25.4 lbs)

Subwoofer (SP-PWC20)

Amplifier section	Front/Center/Surround	135 W per channel, RMS at 4 Ω at 1 kHz, with 10 % total harmonic distortion.
	Subwoofer	135 W, RMS at 4 Ω at 100 Hz, with 10 % total harmonic distortion.
Speaker section	Speaker unit	16 cm (6-5/16 inches) Bass-reflex
	Power Handling Capacity	140 W
	Impedance	4 Ω
	Frequency Range	30 Hz to 200 Hz
	Sound Pressure Level	74 dB/W·m
General	Power Requirements	AC 120 V , 60 Hz
	Power Consumption	135 W (at operation) 0 W (in standby mode)
	Dimensions (W × H × D)	170 mm × 411 mm × 458 mm (6-3/4 inches × 16-3/16 inches × 18-1/16 inches)
	Mass	11.5 kg (25.4 lbs)

Satellite Speakers - SP-XTHC30

Front speakers (SP-THC40F)	Type	2-way 2-speaker Bass reflex type (Magnetically shielded Type)
	Speaker	8.0 cm (3-3/16 inches) cone × 1 1.5 cm (5/8 inches) dome × 1
	Power Handling Capacity	170 W
	Impedance	3 Ω
	Frequency Range	80 Hz to 20 000 Hz
	Sound Pressure Level	77 dB/W·m
	Dimensions (W × H × D)	104.5 mm × 139 mm × 101 mm (4-1/8 inches × 5-1/2 inches × 4 inches)
	Mass	0.56 kg (1.3 lbs) each
Center speaker (SP-THC40C)	Type	2-way 2-speaker Bass reflex type (Magnetically shielded Type)
	Speaker	8.0 cm (3-3/16 inches) cone × 1 1.5 cm (5/8 inches) dome × 1
	Power Handling Capacity	170 W
	Impedance	3 Ω
	Frequency Range	80 Hz to 20 000 Hz
	Sound Pressure Level	77 dB/W·m
	Dimensions (W × H × D)	137 mm × 105 mm × 104.5 mm (5-7/16 inches × 4-3/16 inches × 4-1/8 inches)
	Mass	0.57 kg (1.3 lbs)
Surround speakers (SP-THC40S)	Type	1-way Bass reflex type
	Speaker	8.0 cm (3-3/16 inches) cone × 1
	Power Handling Capacity	170 W
	Impedance	3 Ω
	Frequency Range	80 Hz to 20 000 Hz
	Sound Pressure Level	70 dB/W·m
	Dimensions (W × H × D)	111.5 mm × 148 mm × 106.5 mm (4-7/16 inches × 5-7/8 inches × 4-1/4 inches)
	Mass	0.56 kg (1.3 lbs) each

Satellite Speakers - SP-XTHC20

Front speakers (SP-THC20F)	Type	1-way Bass reflex type (Magnetically shielded Type)
	Speaker	8.0 cm (3-3/16 inches) cone × 1
	Power Handling Capacity	140 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	78 dB/W·m
	Dimensions (W × H × D)	106 mm × 119.5 mm × 102 mm (4-3/16 inches × 4-3/4 inches × 4-1/16 inches)
	Mass	0.55 kg (1.3 lbs) each
Center speaker (SP-THC20C)	Type	1-way Bass reflex type (Magnetically shielded Type)
	Speaker	8.0 cm (3-3/16 inches) cone × 1
	Power Handling Capacity	140 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	78 dB/W·m
	Dimensions (W × H × D)	106 mm × 119.5 mm × 102 mm (4-3/16 inches × 4-3/4 inches × 4-1/16 inches)
	Mass	0.55 kg (1.3 lbs)
Surround speakers (SP-THC20S)	Type	1-way Bass reflex type
	Speaker	8.0 cm (3-3/16 inches) cone × 1
	Power Handling Capacity	140 W
	Impedance	4 Ω
	Frequency Range	90 Hz to 20 000 Hz
	Sound Pressure Level	76 dB/W·m
	Dimensions (W × H × D)	106 mm × 119.5 mm × 102 mm (4-3/16 inches × 4-3/4 inches × 4-1/16 inches)
	Mass	0.63 kg (1.4 lbs) each

Designs & specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

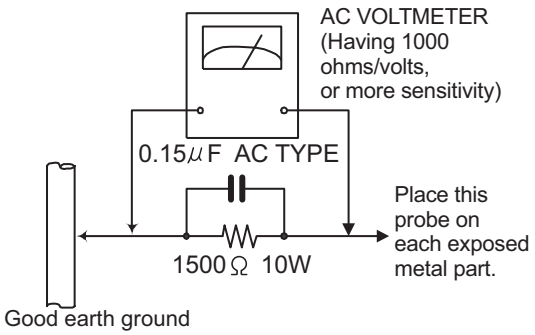
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

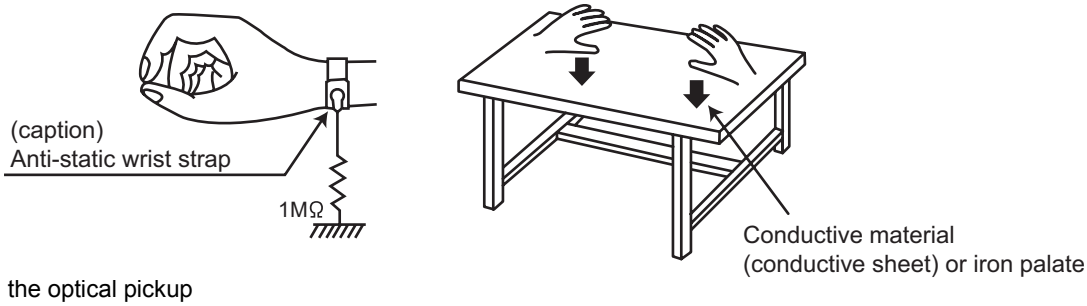
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

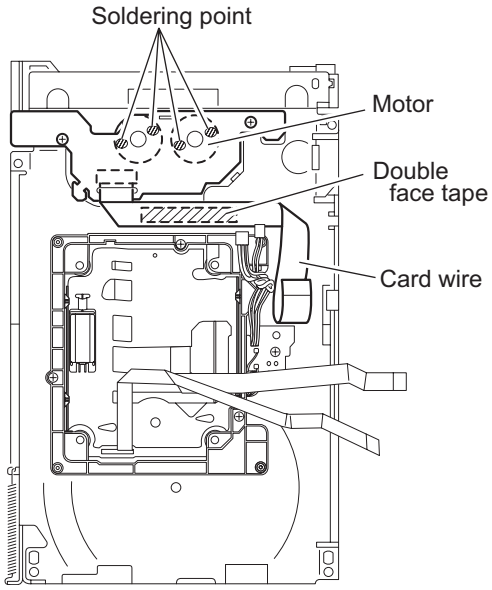
1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

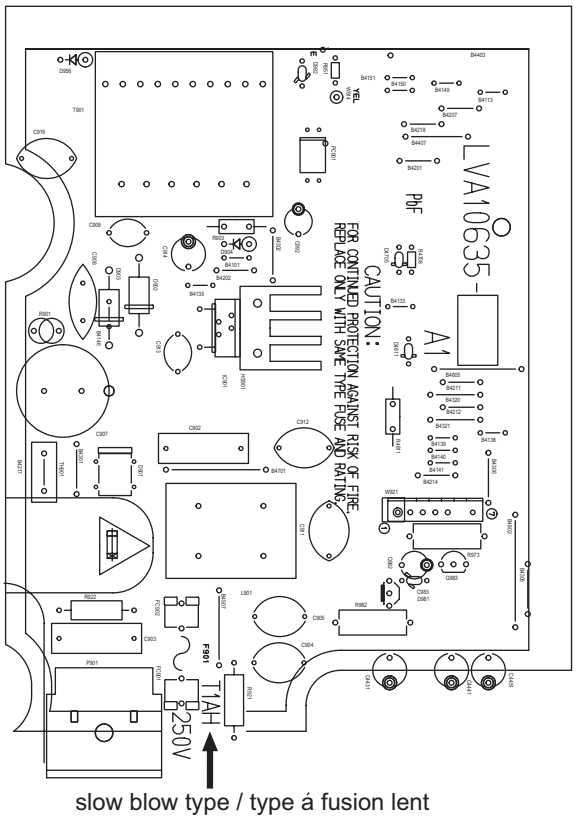
1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

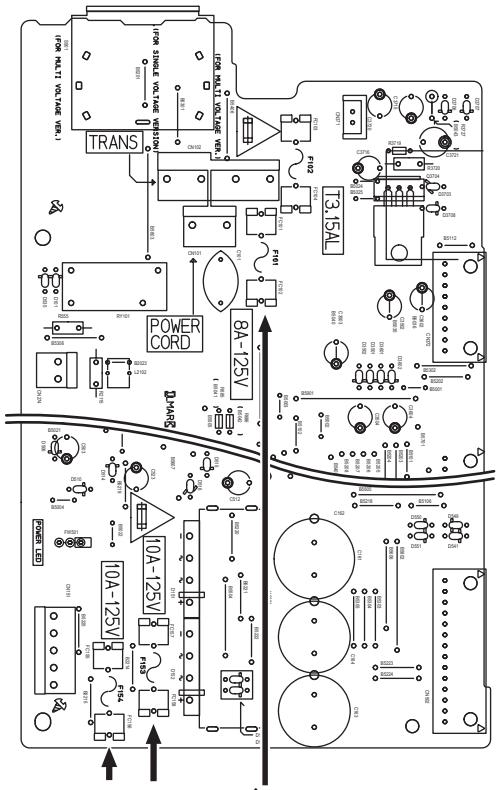
- Apply solder to the short land sections before the flexible wire is disconnected from the connecto on the servo board. (If the flexible wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



1.8 Importance administering point on the safety



slow blow type / type á fusion lent



fast blow type / type á fusion rapide

Full Fuse Replacement Marking Graphic symbol mark (This symbol means slow blow type fuse.) should be read as follows ;	**Marquage Pour Le Remplacement Complet De Fusible** Le symbole graphique (Ce symbole signifie fusible de type á fusion lent.) doit être interprété comme suit ;
FUSE CAUTION	**PRECAUTIONS SUR LES FUSIBLES**
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ; F901 : T1AH 250V	**POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;** F901 : T1AH 250V

Full Fuse Replacement Marking Graphic symbol mark (This symbol means fast blow type fuse.) should be read as follows ;	**Marquage Pour Le Remplacement Complet De Fusible** Le symbole graphique (Ce symbole signifie fusible de type á fusion rapide.) doit être interprété comme suit ;
FUSE CAUTION	**PRECAUTIONS SUR LES FUSIBLES**
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ; F101 : 8A 125V F153 : 10A 125V F154 : 10A 125V	**POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;** F101 : 8A 125V F153 : 10A 125V F154 : 10A 125V

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body

3.1.1 Removing the top cover (See Fig.1 and 2)

(1) Remove the four screws **A** (both side) attaching the top cover. (See Fig.1)

(2) Remove the three screws **B** attaching the top cover from back side. (See Fig.2)

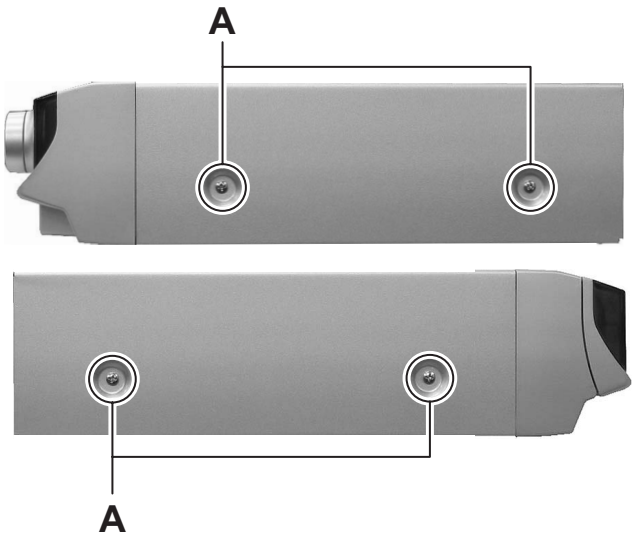


Fig.1

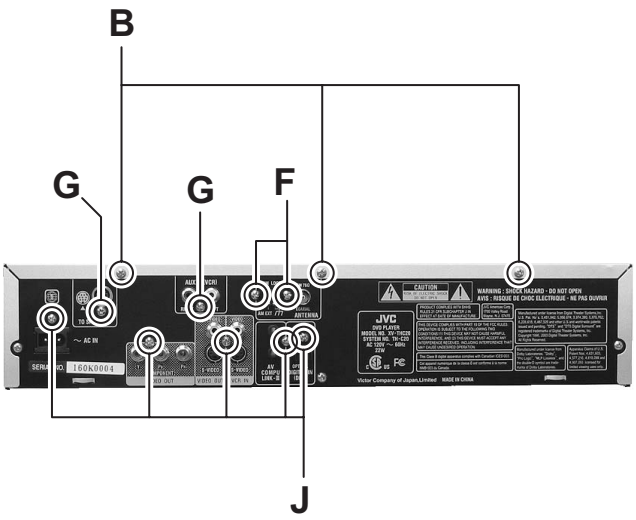


Fig.2

3.1.2 Removing the front panel assembly (See Fig.3 to 5)

(1) Disconnect the card wire from front board connected CN450 and CN451 of main board. (See Fig.3)
(2) Disconnect the card wire from operation board connected CN457 of main board. (See Fig.3)
(3) Remove the one screw **C** attaching the grand wire of front board. (See Fig.3)
(4) Remove the two screws **D** attaching the front panel from bottom side. (See Fig.4)
(5) Disengage the hook **a** of bottom side and hook **b** of both side of front panel assembly. (See Fig.4 and 5)

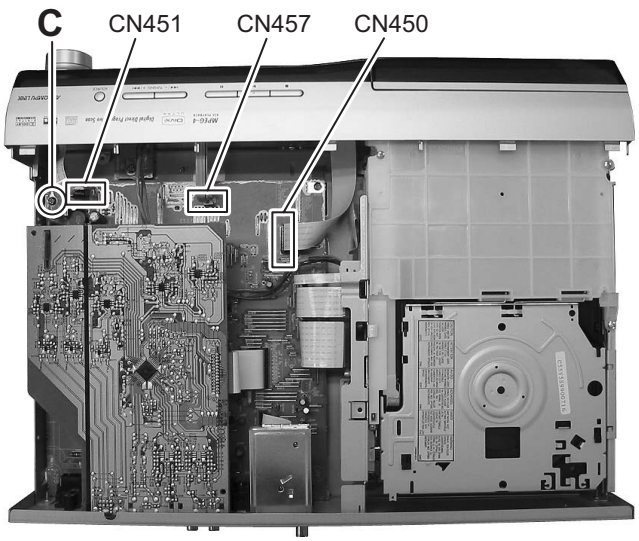


Fig.3

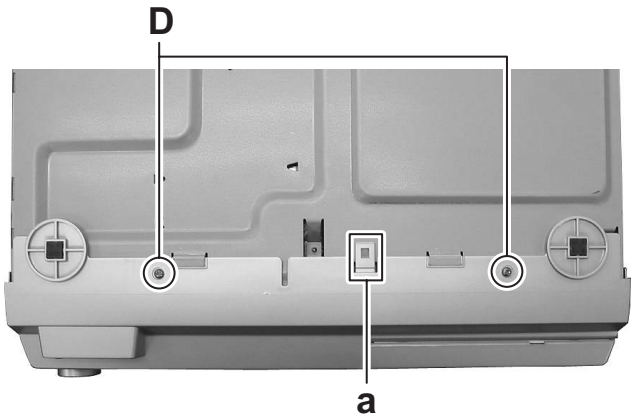


Fig.4

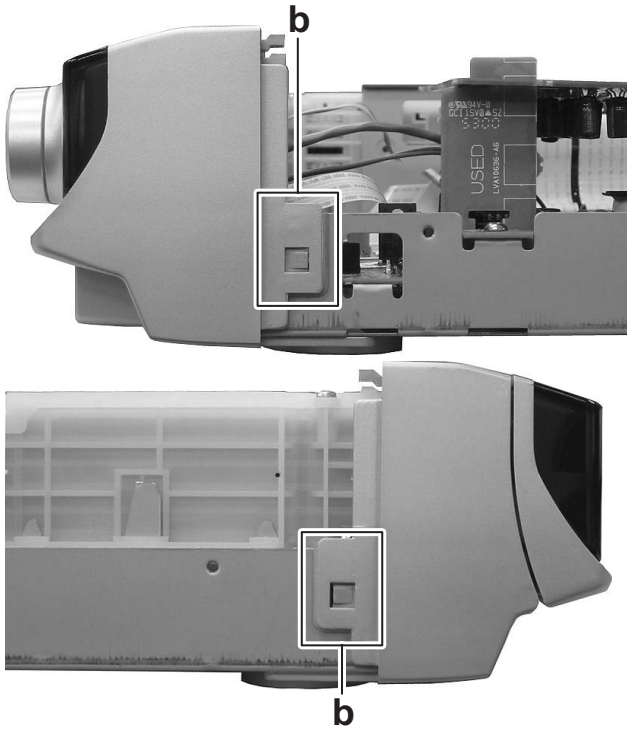


Fig.5

3.1.3 Removing the DVD mechanism assembly (See Fig. 6 and 7)

(1) Disconnect the card wire from DVD mechanism assembly connected to CN402, CN403 and CN404 of main board. (See Fig.6)
(2) Disconnect the connector wire from USB jack board connected to CN811 of DVD module board. (See Fig.7)
(3) Remove the four screws **E** attaching the DVD mechanism assembly. (See Fig.6)

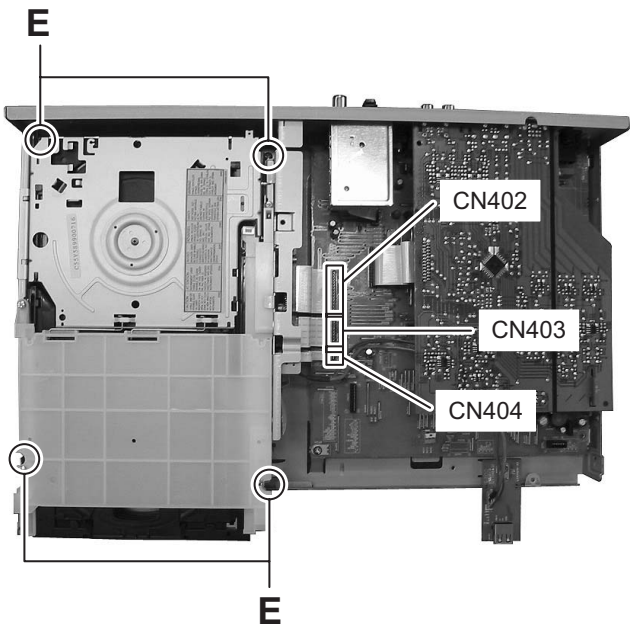


Fig.6

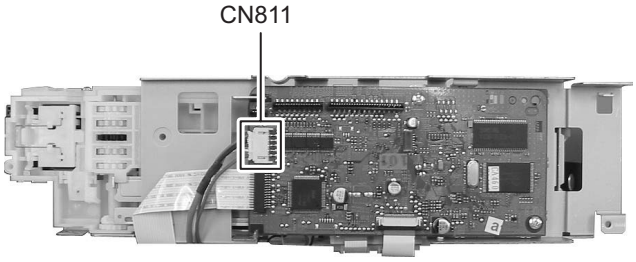


Fig.7

3.1.4 Removing the tuner pack (See Fig.2 and 8)

(1) Disconnect the card wire from tuner pack connected to CN410 of main board. (See Fig.8)
(2) Remove the two screws **F** attaching the tuner pack. (See Fig.2)

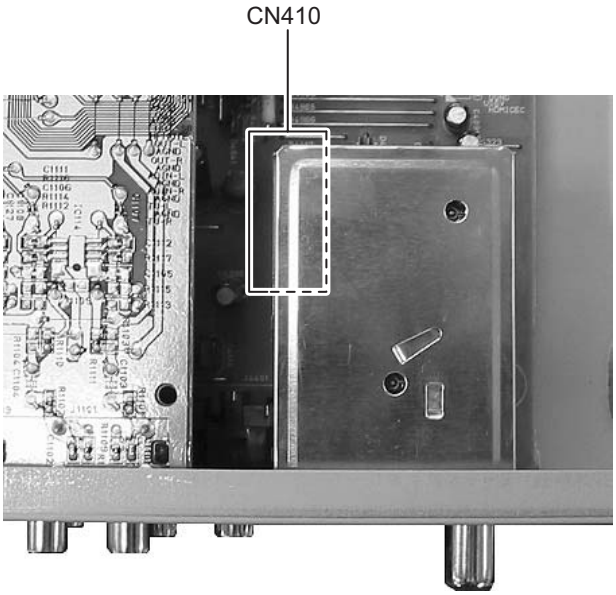


Fig.8

3.1.5 Removing the audio and digital input board (See Fig.2 and 9)

(1) Remove the two screws **G** attaching the audio and digital input board. (See Fig.2)
(2) Disconnect the card wire from main board connected to CN102. (See Fig.9)
(3) Disconnect the connection board from CN101, and then shift to direction the arrow and take off the audio and digital input board. (See Fig.9)

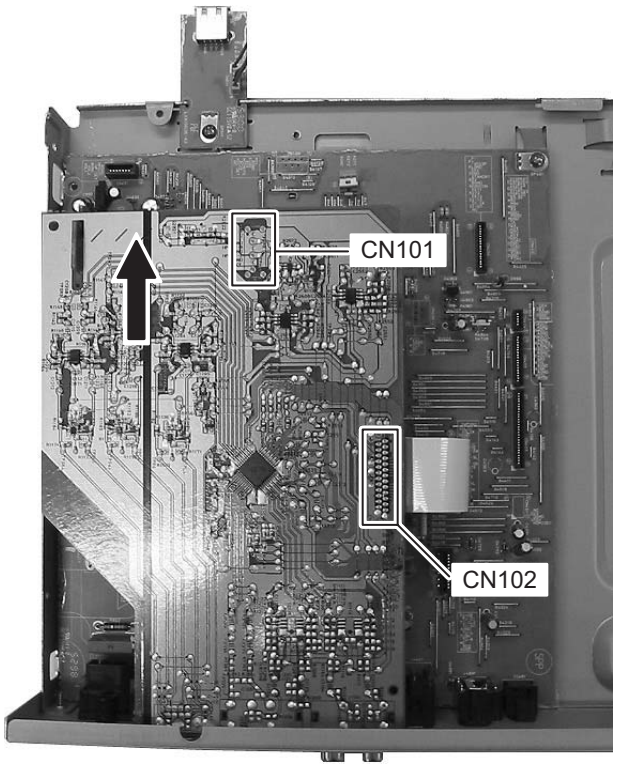


Fig.9

3.1.6 Removing the USB jack board (See Fig.10)

(1) Remove the one screw **H** attaching the USB jack board. (See Fig.10)

Fig.10

3.1.7 Removing the main board (See Fig.2 and 11)

(1) Remove the five screws **J** attaching the main board from back side. (See Fig.2)
(2) Remove the four screws **K** attaching the main board. (See Fig.11)

Fig.11

3.1.8 Removing the operation board (See Fig.12 and 13)

(1) Pull out the volume knob.
(2) Remove the one screw **L** attaching the volume. (See Fig.12)
(3) Remove the one screw **M** attaching the bracket board. (See Fig.13)
(4) Remove the three screws **N** attaching the operation board. (See Fig.13)

3.1.9 Removing the front board (See Fig.13)

(1) Remove the seven screws **P** attaching the front board.

Fig.12

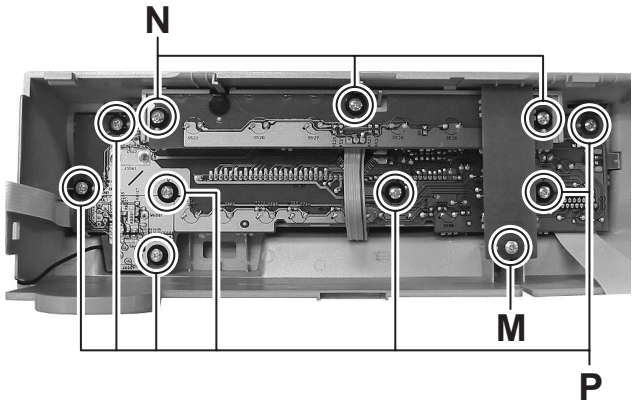


Fig.13

3.2 Subwoofer

3.2.1 Removing the amplifier assembly (See Fig.1 to 4)

(1) Remove the eight screws **A** attaching the amplifier assembly from bottom side. (See Fig.1)
(2) Remove the two screws **B**, one screw **C** and six screws **D** attaching the rear panel. (See Fig.2)
(3) Disconnect the connector wire from fan motor connected to CN371. (See Fig.3)
(4) Pull out the amplifier assembly and disconnect the connector wire from speaker connected to CN274. (See Fig.4)

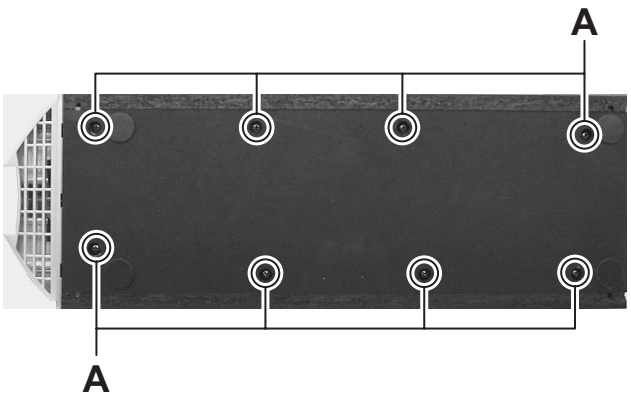


Fig.1

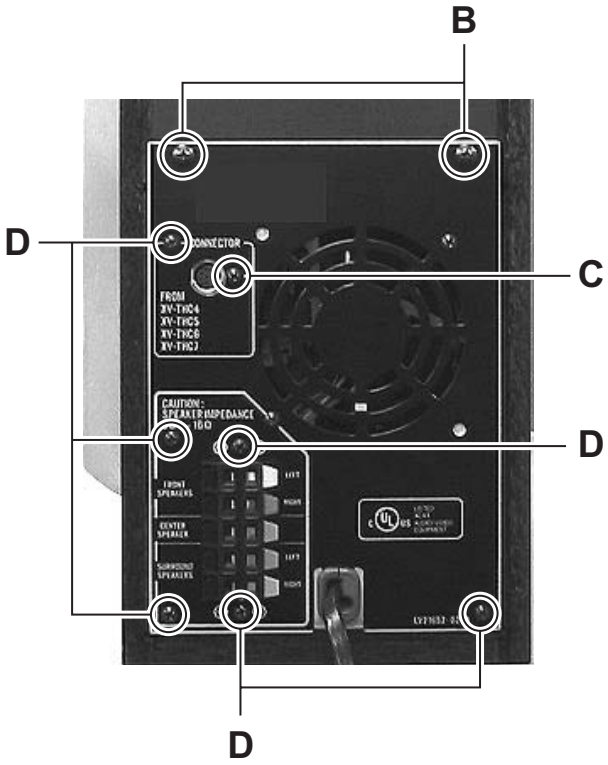


Fig.2

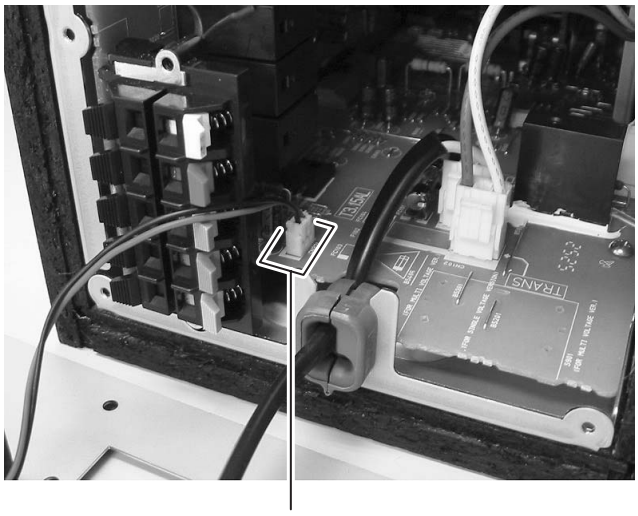


Fig.3

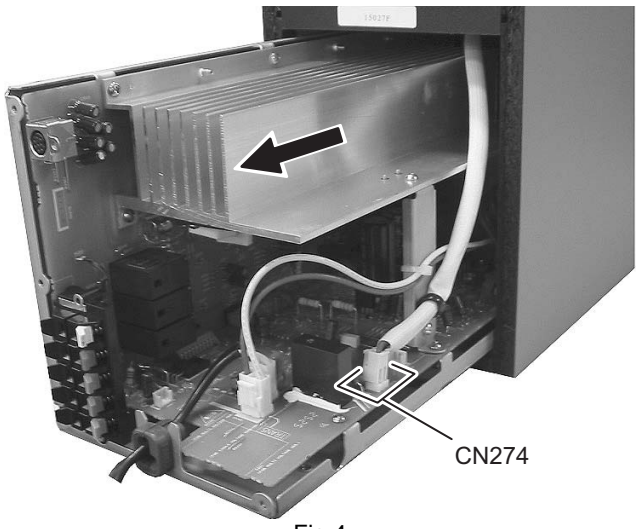


Fig.4

3.2.2 Removing the mother board (See Fig.5 and 6)

(1) Disconnect the connector wire from power transformer connected to CN102 and CN151. (See Fig.5)
(2) Disconnect the power cord connected to CN101. (See Fig.5)
(3) Remove the four screws **E** attaching the heat sink bracket. (See Fig.5)
(4) Remove the two screws **F** attaching the mother board. (See Fig.5)
(5) Disconnect the connector connected to amplifier board CN372, CN501 and CN502. (See Fig.6)

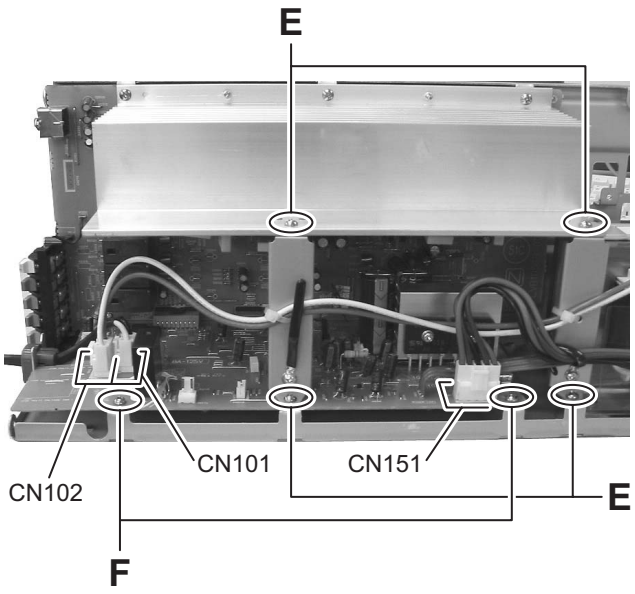


Fig.5

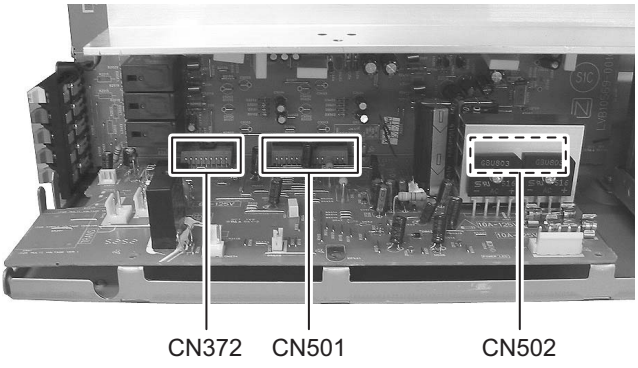


Fig.6

3.2.3 Removing the amplifier board (See Fig.7)

(1) Remove the nine screws **G** attaching the amplifier board.

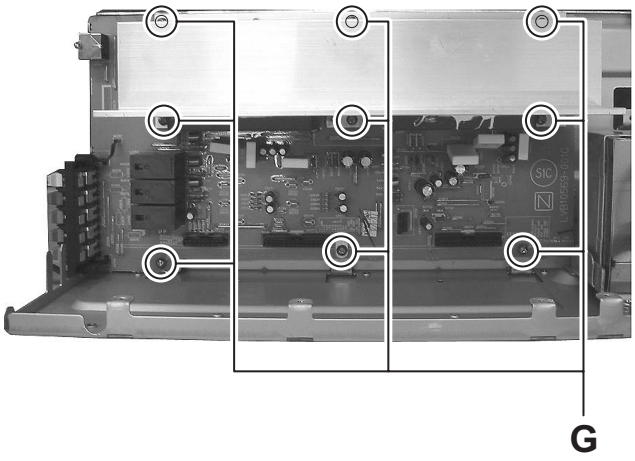


Fig.7

3.2.4 Removing the heat sink (See Fig.8 and 9)

(1) Remove the three screws **H** attaching the heat sink from bottom side of amplifier board. (See Fig.8)

(2) Remove the four screws **J** attaching the power IC. (See Fig.9)

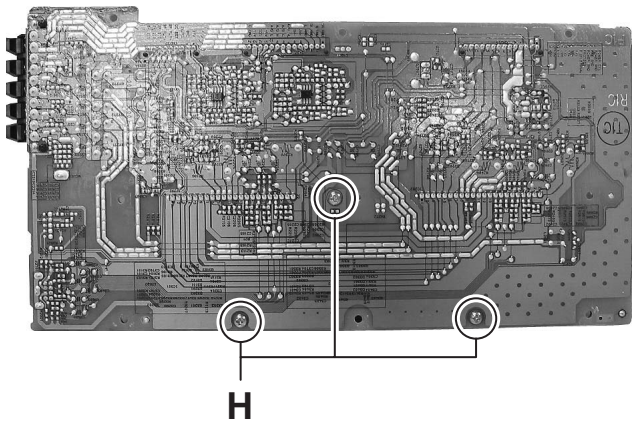


Fig.8

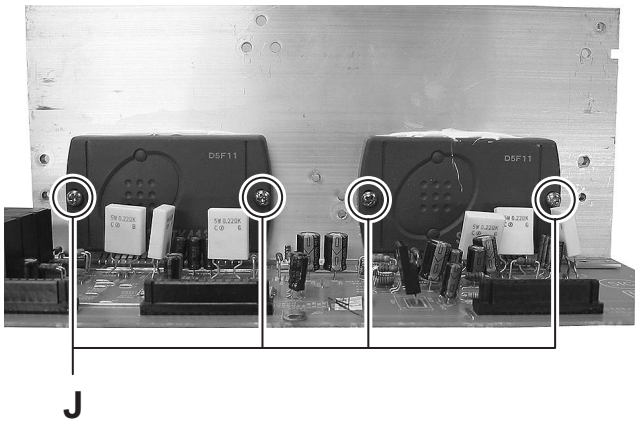


Fig.9

3.3 DVD mechanism section

3.3.1 Removing the DVD module board (See Fig.1)

(1) Disconnect the card wire connected to CN451, CN452, CN453, CN101 and CN102 of DVD module board. (See Fig.1)

(2) Remove the two screws **A** attaching the DVD module board. (See Fig.1)

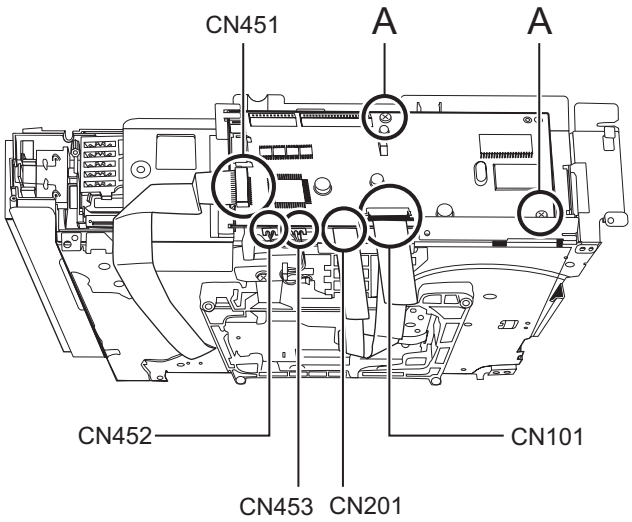


Fig.1

3.3.2 Removing the PWB bracket and wire holder (See Fig.2)

(1) Remove the two screws **B** attaching the wire holder.

(2) Remove the one screw **C** attaching the PWB bracket.

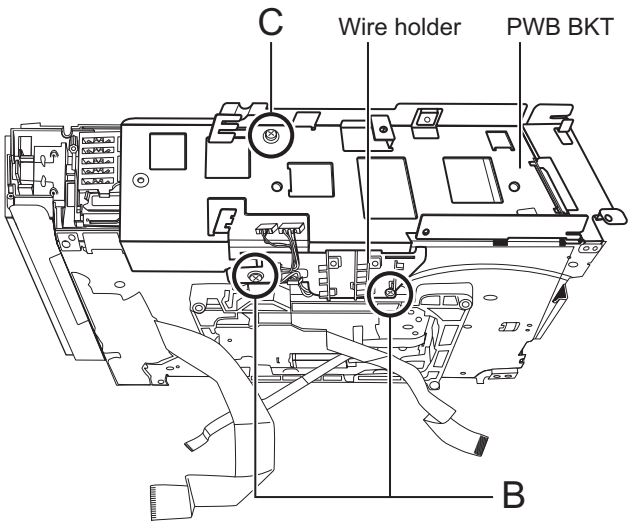


Fig.2

3.3.3 Removing the tray assembly (See Fig.3 to 7)

(1) Remove the two screws **D** from the top cover and release the two joints **a** on both sides of the body. (See Fig.3)
(2) Remove the top cover with the two rods attached to the top cover and lifter assembly respectively. (See Fig.4)
(3) Remove the open detect lever on the left side of the body. (See Fig.5)
(4) Push part **b** of the slide (R) assembly on the right side of the body to unlock the tray assembly. Draw out the trays toward the front. (See Fig.6)

Attention:
The tray can be locked if all tray assemblies are attached.

(5) From top of the body, move the stopper tab **c** in the direction of the arrow and release. Pull out the tray assemblies from the body. (See Fig.6 and 7)

Caution:
Remove the tray assembly from top tray 5 in order.

Attention:
When reattaching the sub tray of the tray assembly, or when removing the DVD mechanism inside, refer to another section.

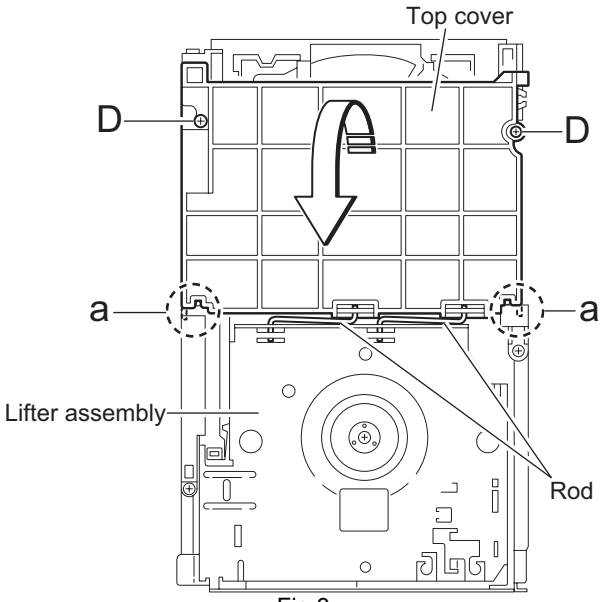


Fig.3

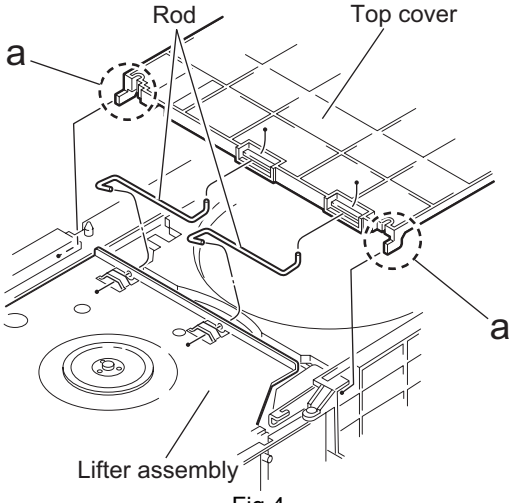


Fig.4

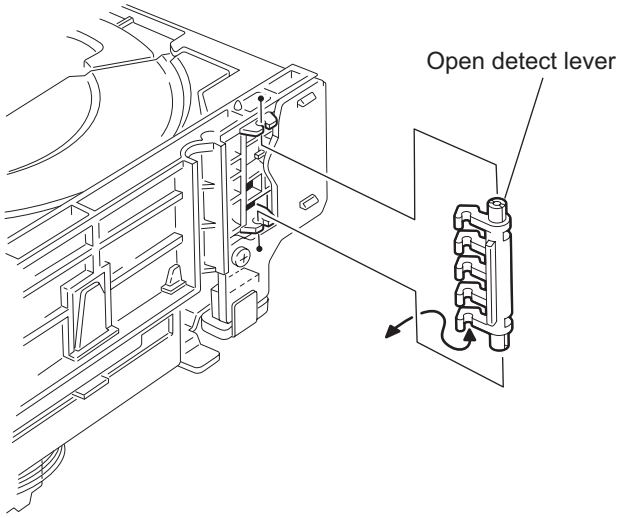


Fig.5

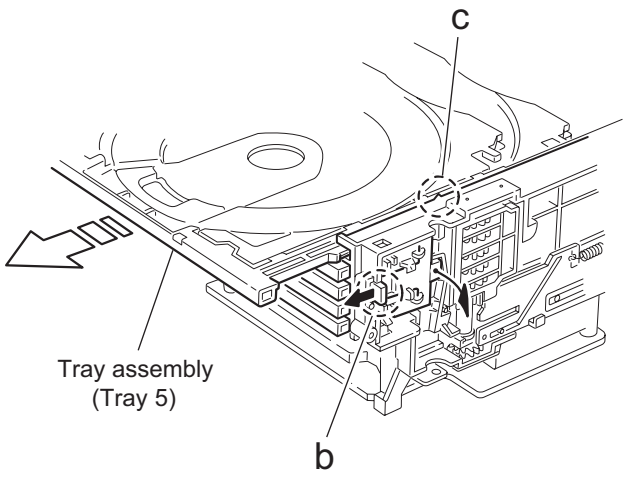


Fig.6

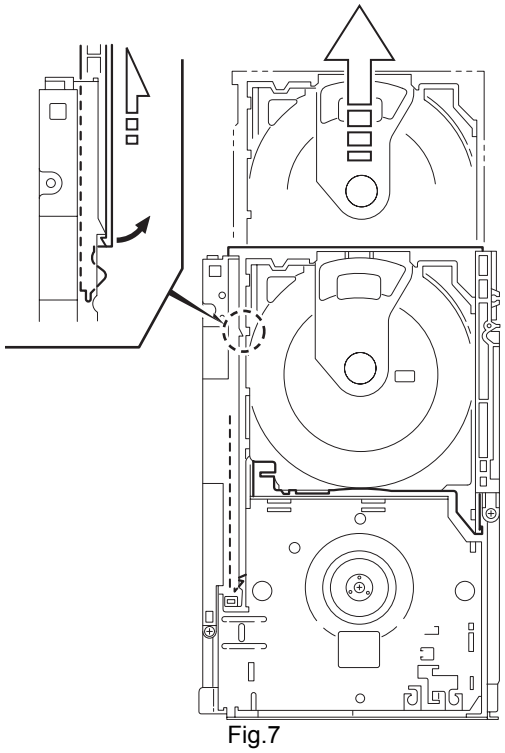


Fig.7

3.3.4 Removing the motor board (See Fig.8)

(1) Remove the two screws **D** attaching the motor board.
(2) Remove the spacer fixing the motor board and tray switch-board, and disconnect the connector CN2 on the motor board.
(3) Disconnect the card wire from connector CN1 on the motor board.

Caution:

When reconnection the card wire, let the card wire through the slot **d** of the motor board and attach it to bottom of the body using a double face tape.

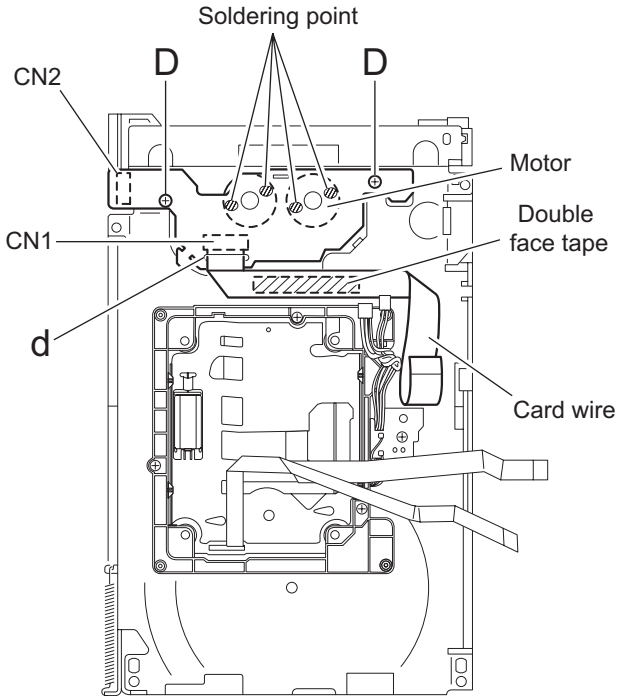


Fig.8

3.3.5 Removing the DVD tramecha assembly (See Fig.9)

(1) Remove the three screws **E** attaching the DVD tramecha assembly.

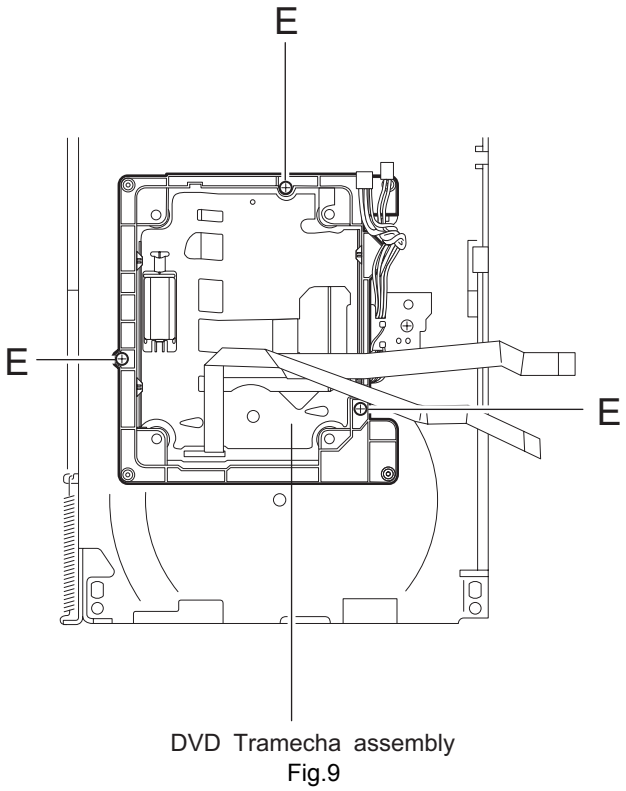
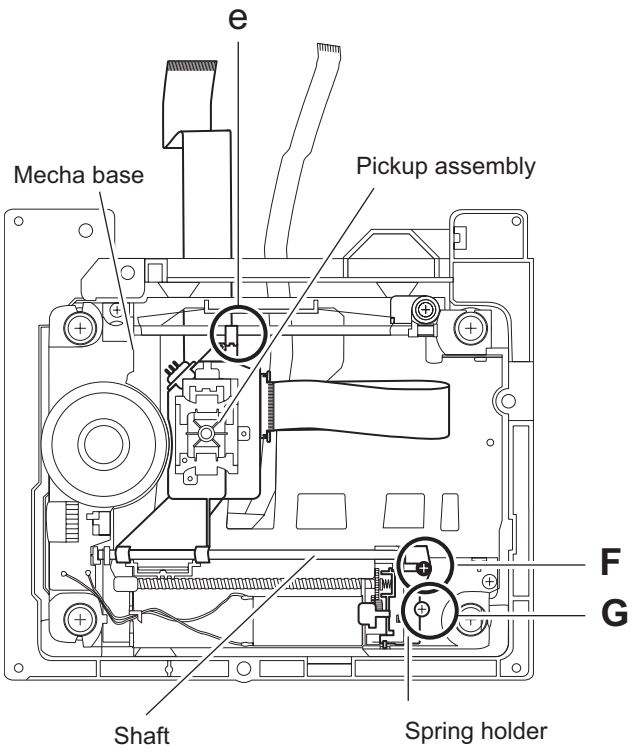


Fig.9

3.3.6 Removing the pickup (See Fig.10 and 11)

(1) Remove the one screw **F** and **G** attaching the spring holder. (See Fig.10)
(2) Lift up the shaft from the tramecha assembly. (See Fig.10)
(3) Remove the two screws **H** attaching the lack. (See Fig.11)



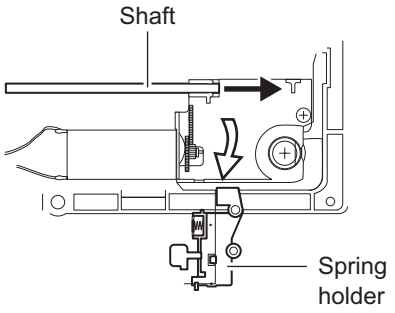


Fig.10

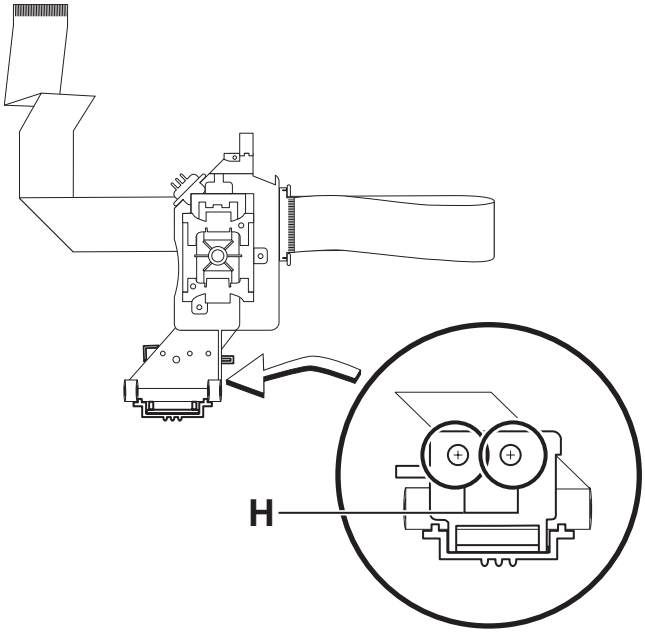


Fig.11

3.3.7 Removing the side (L)
(See Fig.12 to 14)

(1) Remove the two screws **J** attaching the side (L). (See Fig.12)
(2) From the side of body, remove the spacer fixing the tray switch board and motor board. Disconnect connector CN3 on the tray switch board and detach the side (L) upward. (See Fig.13)
(3) Remove the one screw **K** attaching the tray switch board. (See Fig.14)
(4) Push the joint tab **d** of the side (L) in the direction of the arrow and remove the tray switch board outward, then release joint **f**. (See Fig.14)

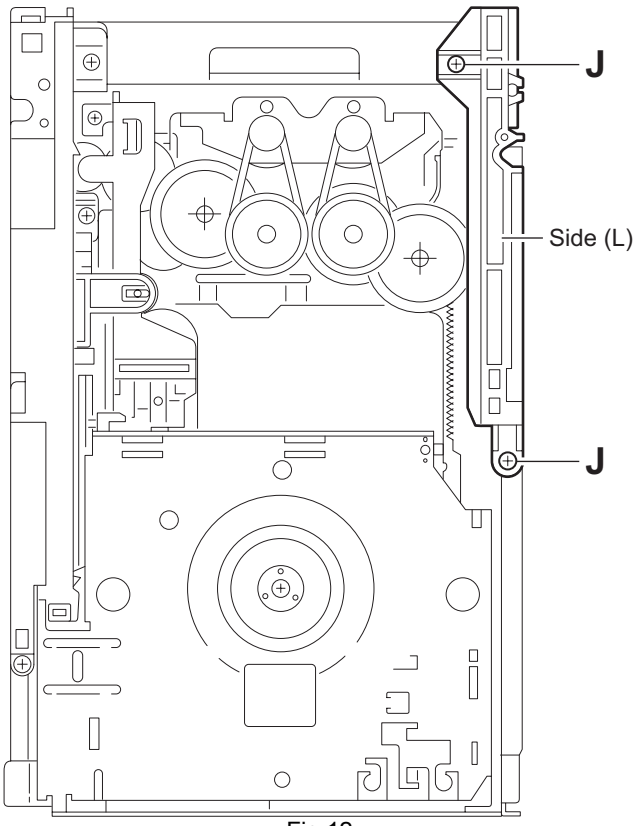


Fig.12

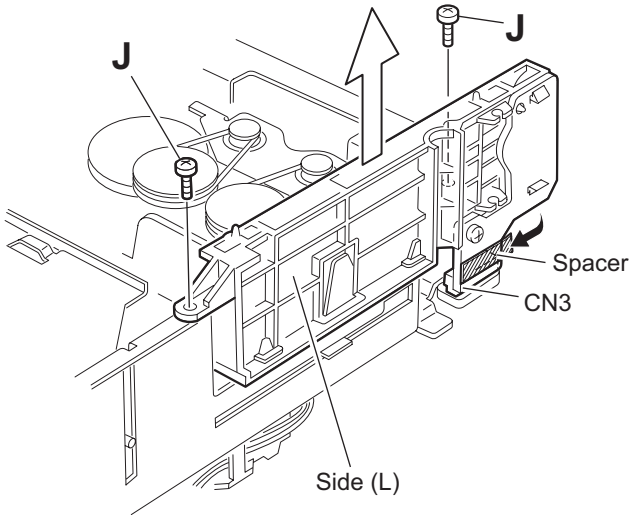


Fig.13

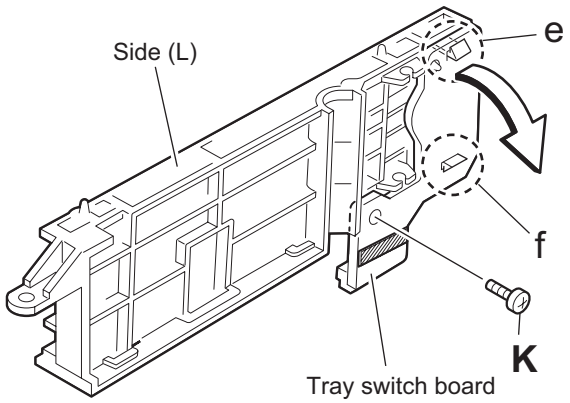


Fig.14

3.3.8 Removing the side (R) assembly (See Fig.15 to 19)

(1) Remove the three screws **L** attaching the side (R) assembly. (See Fig.15)
(2) Remove the spring attached to part **g** of the hook on the right side of the body. (See Fig.16)
(3) Push and release the two tabs **h** of the gear cover through the notches inside the side (R) assembly. Remove the gear cover outward. (See Fig.17)
(4) From top of the body, turn the 1 gear clockwise to move the elevator cam rearward. Move the two slots **k** and joint **m** of the elevator cam as shown Fig.18 and remove the elevator cam outward.
(5) Remove the three screws **M** and detach the side (R) upward. (See Fig.19)

Caution:

When reattaching the side (R) assembly, make sure to fit the shaft into the slot of the select lever.

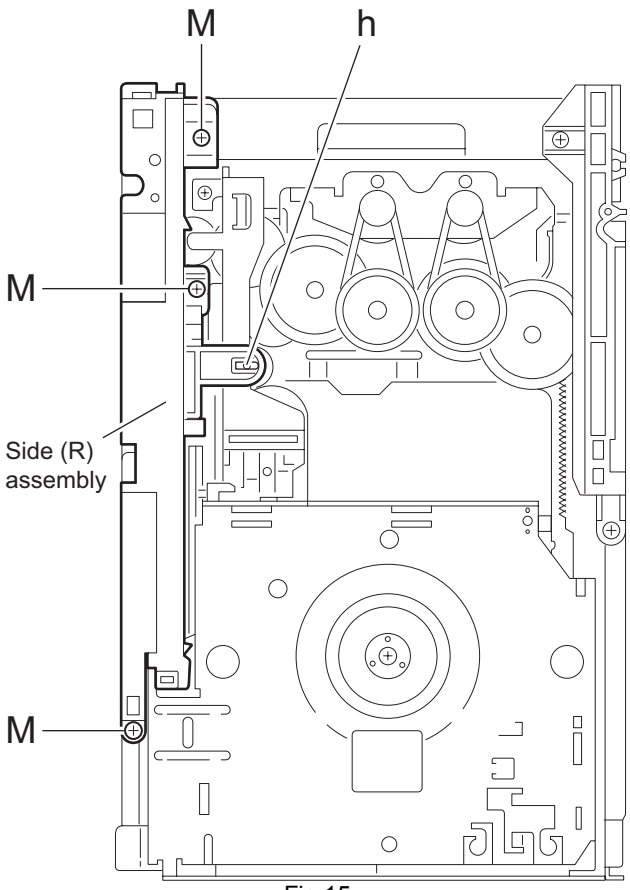


Fig.15

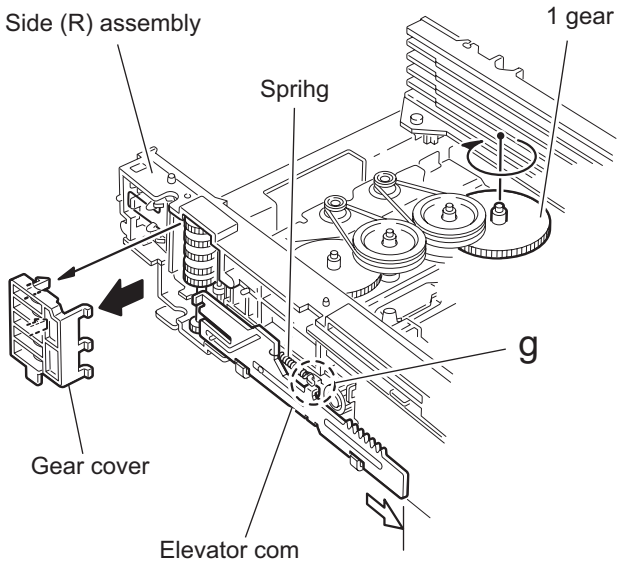


Fig.16

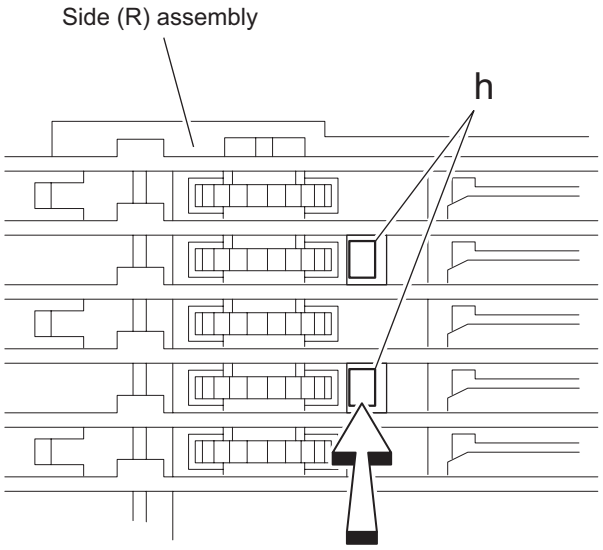


Fig.17

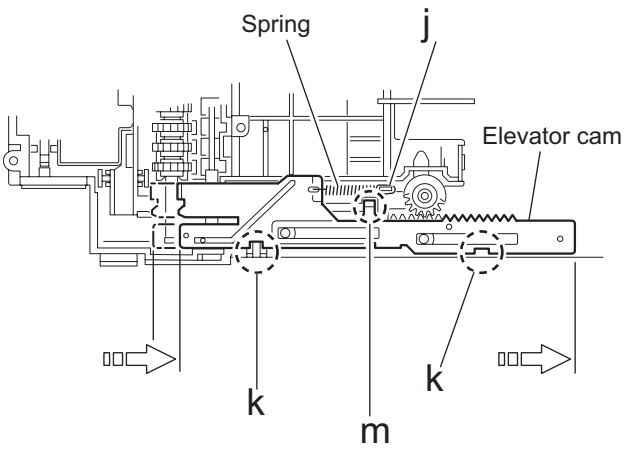


Fig.18

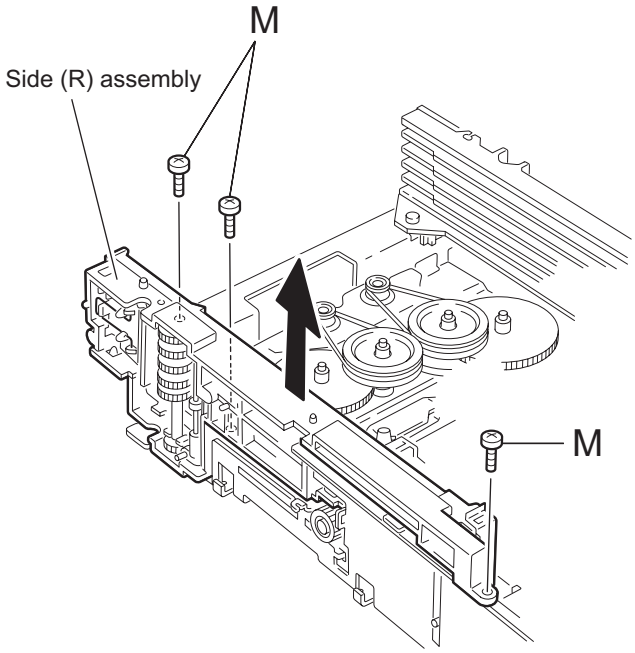


Fig.19

3.3.9 Removing the lifter assembly (See Fig.20 to 24)

(1) From top of the body, turn the 1 gear clockwise to move the lifter assembly upward. (See Fig.20)
(2) From top of the body, turn 2 gear clockwise to move the hook toward the front until it stops. (See Fig.20)
(3) Move the hook stopper in the direction of the arrow while pushing the tab **n** of the hook stopper to unlock it. Release four joints **p** to detach from rack holder. Release the rod from part **q**. (See Fig.21 and 22)
(4) Turn 1 gear clockwise again to move the lifter assembly upward. (See Fig.23)
(5) Remove the lifer assembly from the body upward at position **r** where the four pins on the right and left sides of the lifter assembly fit to the notches of the **s**. Move the lifter assembly toward the front and release from the gook. (See Fig.23 and 24)

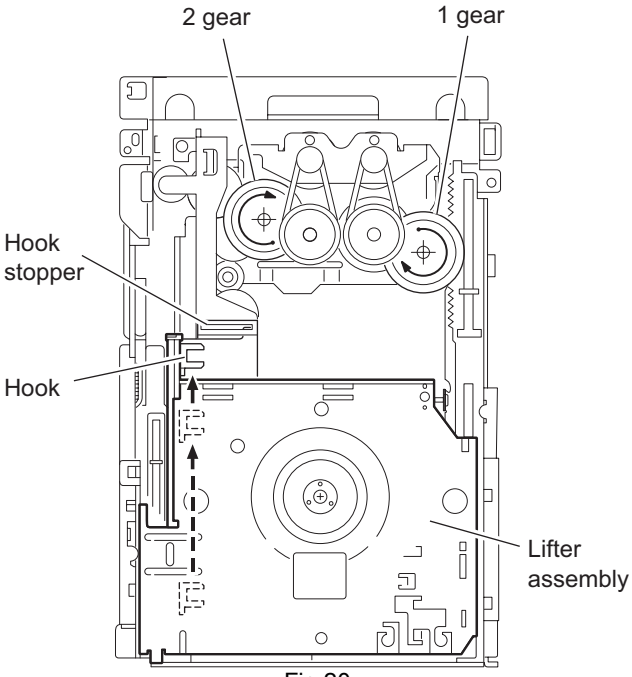


Fig.20

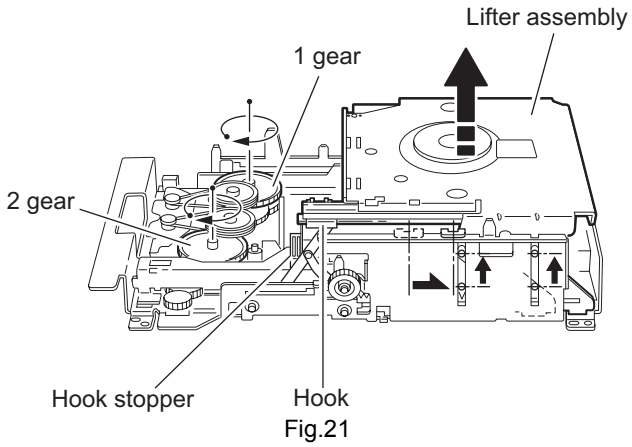


Fig.21

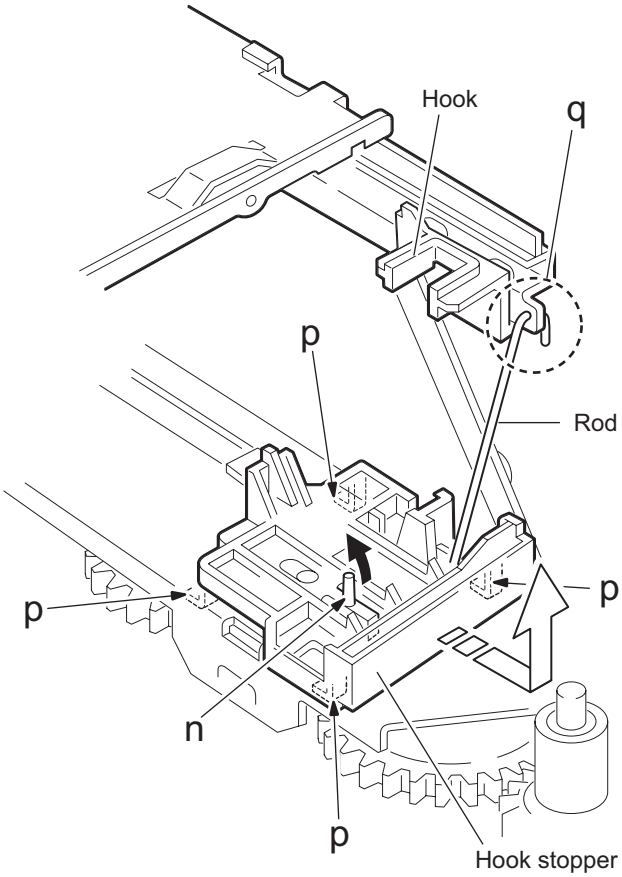


Fig.22

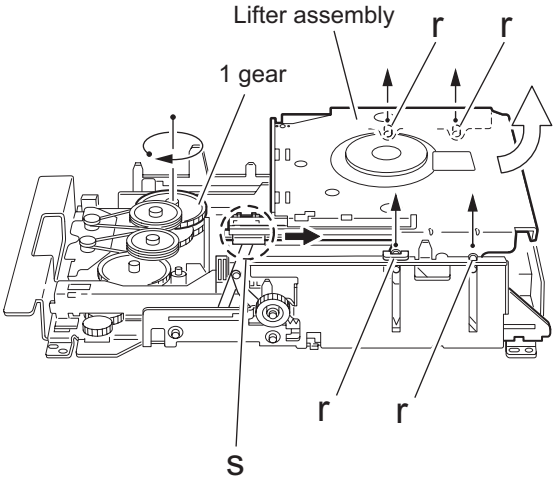


Fig.23

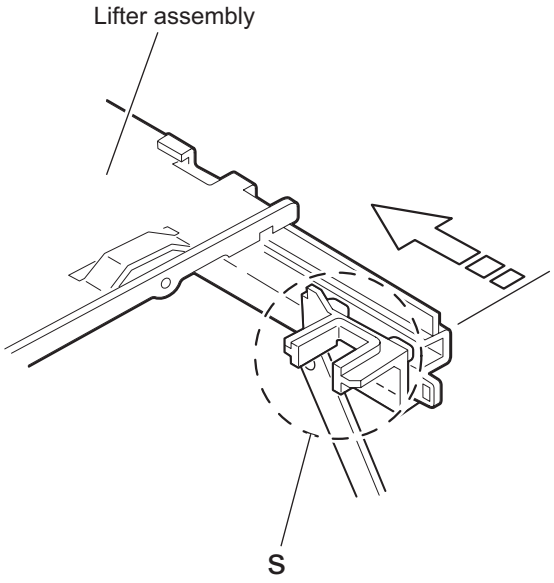


Fig.24

3.3.10 Removing the rack holder assembly / sensor assembly (See Fig.25 to 30)

Attention:

If the slide gear of the body places at joint **u** of the rack holder assembly, turn the 1 gear counterclockwise to move the slide gear toward the front. Remove the rack holder assembly.

(1) Remove the three screws **N** attaching the rack holder assembly. Release joint **u** from the notch.

Caution:

When reattaching the rack holder assembly, do not nip the wire **v** extending from the sensor assembly.

(2) Move the sensor assembly in the direction of the arrow to release from slot at joint **y**.

(3) Remove the spring attached to the bottom of the sensor assembly from the boss **z** on the sensor slider.

(4) Remove the screw **P** and **Q** attaching the sensor board and SV resister respectively. If necessary, unsolder the sensor board.

Caution:

When reattaching the SV resister, attach the sensor slider to the sensor bracket and fit the lever on the bottom of the SC resister into slot **a'** of the sensor slider.

Caution:

When reattaching the rack holder assembly, turn the 1 gear clockwise to move the slide gear and slide lever inside the body rearward.

- Let the wire extending from the sensor assembly through notch **x** to the bottom of the body.
- Fix pin **c'** of the slide lever into hole **b'** on the sensor slider on the bottom of the sensor assembly while attaching the spring to the boss **z** of the sensor slider.
- Engage joint **y** of the sensor assembly to the notch of the body.

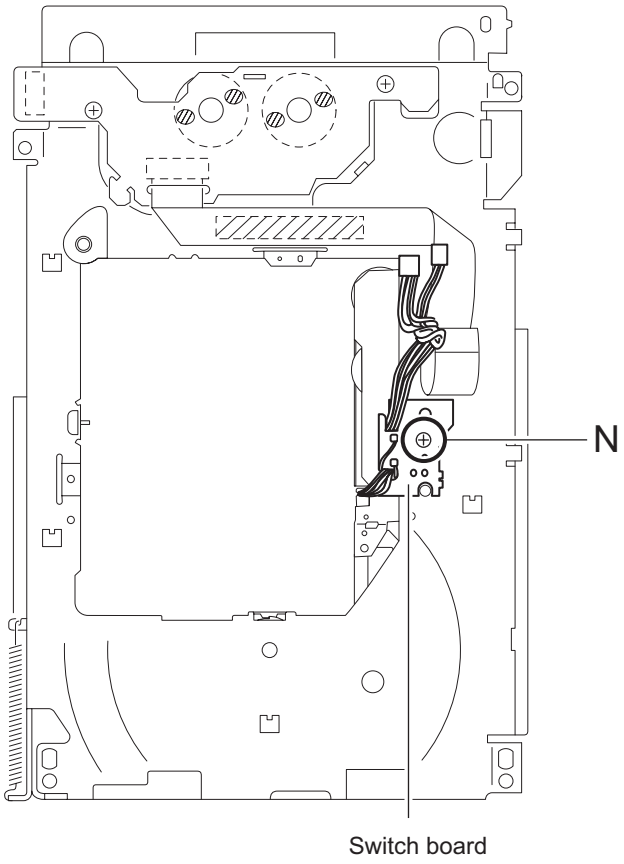


Fig.25

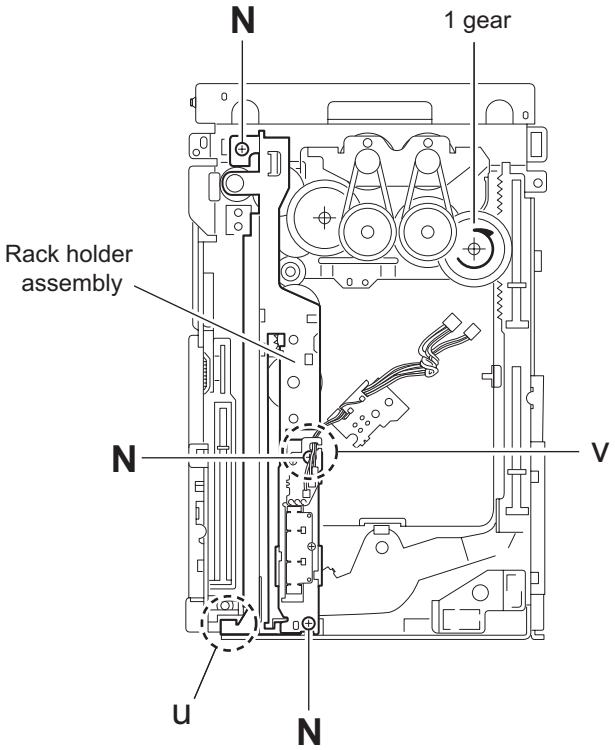


Fig.26

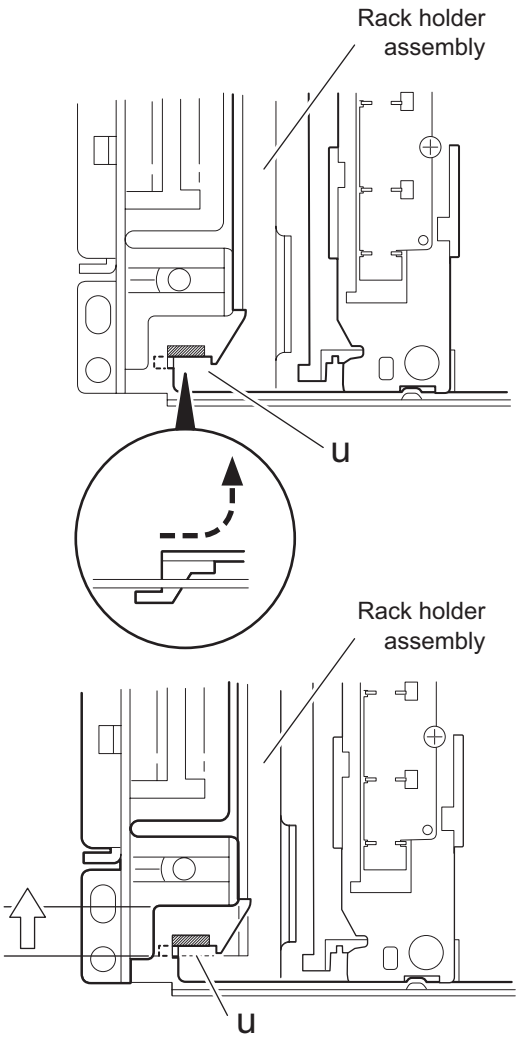


Fig.27

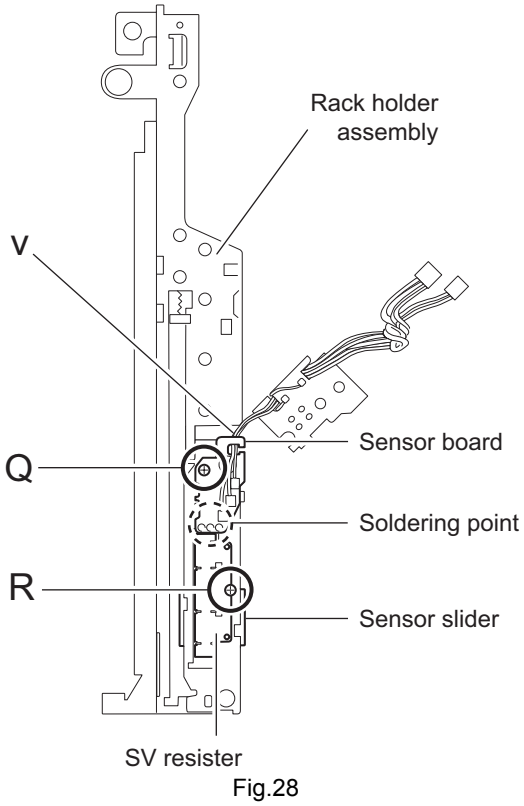


Fig.28

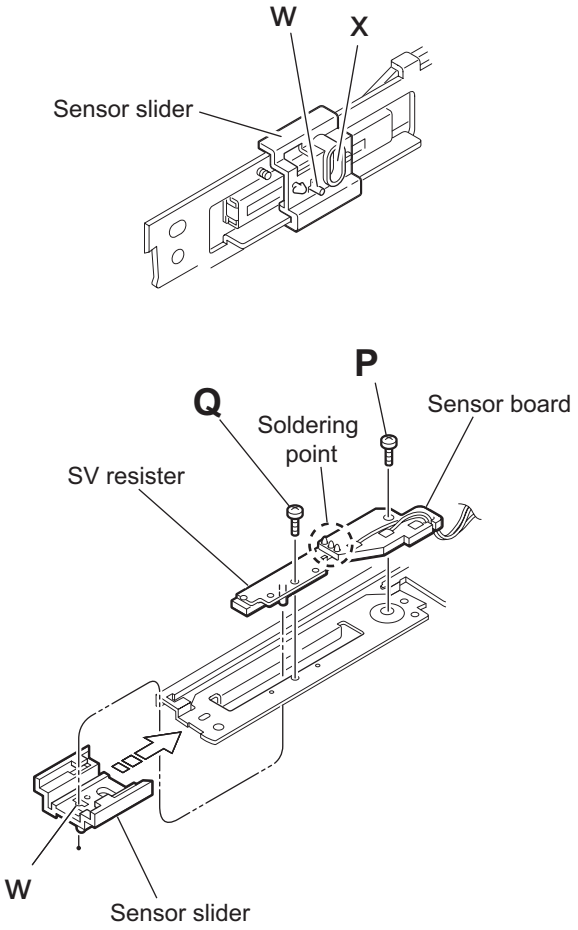


Fig.29

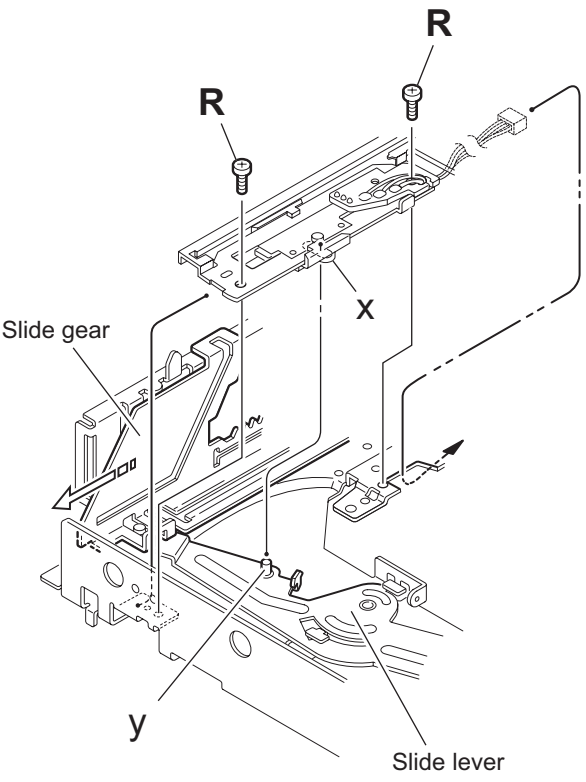


Fig.30

3.3.11 Removing the motor
(See Fig.31 and 32)

Attention:

You need not to remove the tray assembly, and in such case, move it.

(1) Remove the two belts on top of the body.
(2) Remove the two screws **S** attaching the motor.
(3) Remove the motor from the bottom of the body.

Attention:

When removing the motor board with the motor, you need not to unsolder four solder parts.

Caution:

When reattaching the motor, turn the side where the label should bu put to te front side.

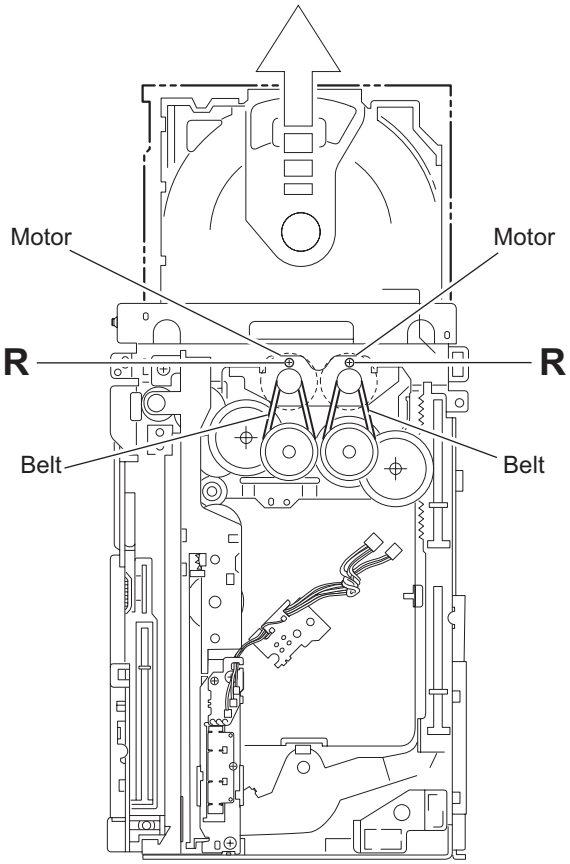


Fig.31

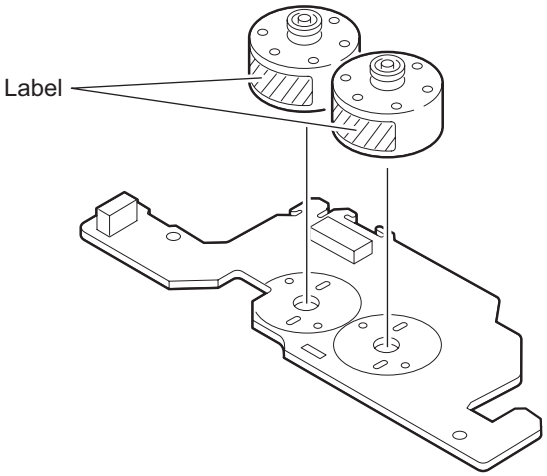


Fig.32

3.3.12 Taking out the disc in play mode (See Fig.33 to 36)

Attention:

Refer to "Removing the tray assembly".

(1) Remove the top cover upward.
(2) Unlock the tray assembly and draw out the tray assembly toward the front.
(3) From top of the body, turn the 1 gear clockwise to move the lifter assembly upward.
(4) From top of the body, turn 2 gear clockwise to move the sub tray remaining inside the lifter assembly toward the front, then pull out.
(5) Take out the disc on the sub tray.
(6) After clearing away the disc, insert the sub tray into the main tray.

Caution:

When reattaching the sub tray, move the tray stopper on the bottom of the tray in the direction of the arrow to lock the sub tray certainly.

(7) Push the tray assembly toward to body and reattach.

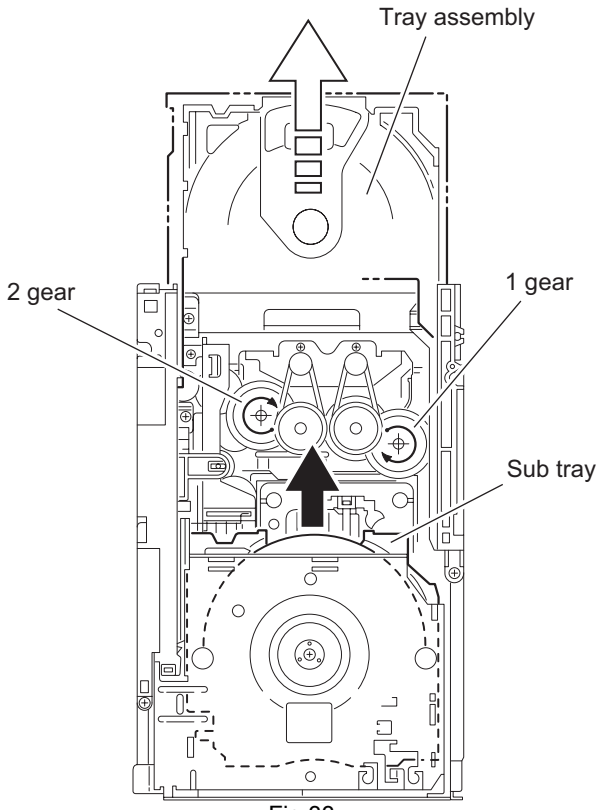


Fig.33

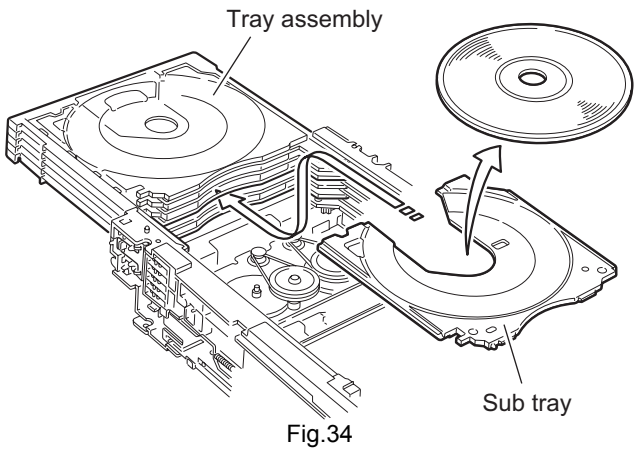


Fig.34

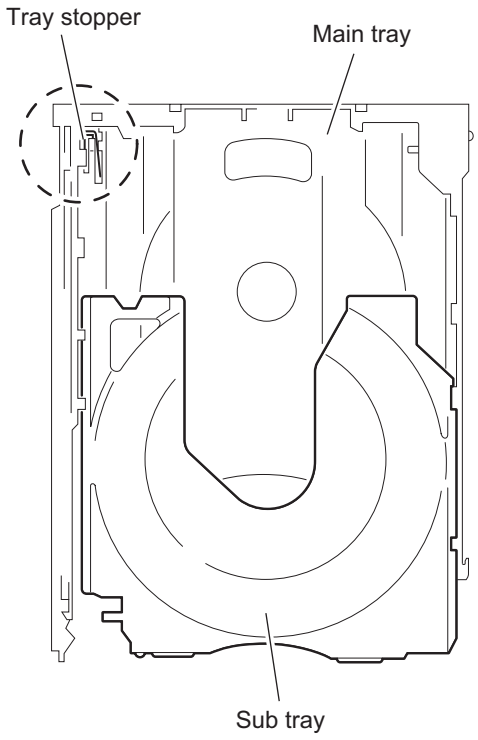


Fig.35

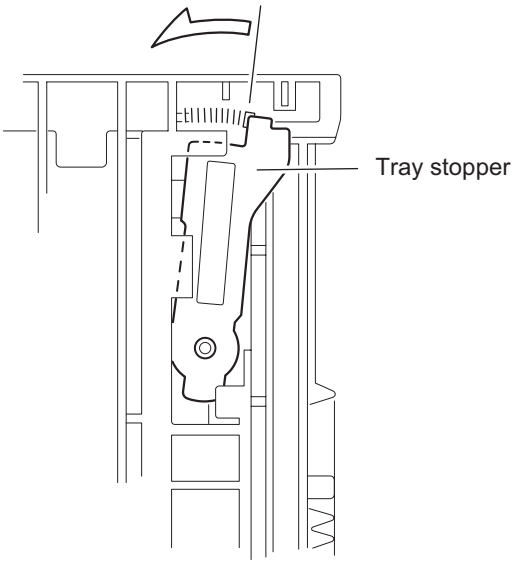


Fig.36

SECTION 4
ADJUSTMENT

4.1 ATTENTION IN SERVICE OF DVD SECTION

(1) When pickup, Flash ROM ,DVD module board were changed, initialize EEPROM by all means.
(2) When full initialization was excuted, excute learning with a DVD test disc by all means.
Test disc : VT-501, VT-502
Learning method : It is adjusted automatically by normal playback of a DVD disc.

4.2 TEST MODE

4.2.1 OUTLINE

To the set which is using the DVD module, in order to perform common correspondence in production, TEST mode is prepared. Table 1 is corresponded in TEST mode.

MODE	CONTENTS
The destination, a region, study state check mode	Indication the distination code, region number and study state fo DVD micon.
NORMAL initialize, FULL initialize	Mode of DVD micon initialize. Initialize has NORMAL initialize and FULL initialize. NORMAL initialize : Initialize the value of user setting item, like a indication contents of SETUP OSD. FULL initialize : Plus the contents of study which are carrying out the memory by FRONT END for lead shortening are initialized for NORMAL initialize contents.
Device key write (CPPM, CPRM)	For device key writing mode. Device key have CPPM(DVD Audio) and CPRM(VR).
Device key check sum indication mode	Indication the wrote device key check sum. Indication this value, it can check the device key was wrote or not.
Micon version indication mode	Indication System micon, DVD micon, other ROM version. With a set, correspondence and the contents of correspondence shall be individual, and shall be decided.
FL all on mode	Mode of FL (LCD) all on. With a set, correspondence and the contents of correspondence shall be individual, and shall be decided.
FRONT END check mode	Mode of relation of FRONT END.

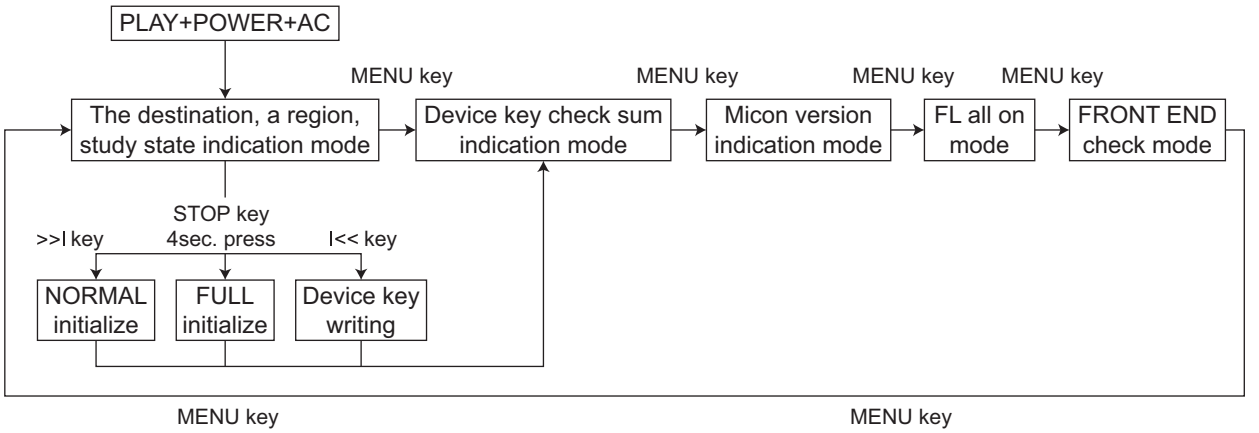
Table 1. Contents corresponding to TEST mode.

4.2.2 SET OPERATE

TEST mode performs correspondence by operation specially so that a user cannot enter.
- TEST MODE start should be press PLAY key & POWER key of main unit together and keep condition, connect AC.
- After set up TEST MODE, mode select by MENU key.

The changes to the key in TEST mode are shown in Fig. 1.

Fig.1 Change to TEST MODE and key



(*1) : Shift from destination, region and study state indication mode to NORMAL initialize, FULL initialize and device writing mode should only can main unit key.

4.2.3 PROCESS

Below, FL (LCD) display to operation and communication with a DVD back end micon are shown.

- Since the number of beams changes with sets about FL (LCD) display, also set differing from the contents of specification to O.K.
- Since there are arrangement and a relation of existence with a set also about a key, also set differing from the contents of specification to O.K.

STEP	OPERATION	MOVEMENT	FL (LCD) indication 1 2 3 4 5 6 7 8 9 10 11 12 13	REMARKS
1	Release AC, press PLAY & POWER key together of main unit.			
2	Keep STEP 1, connect AC.	The destination, a region, study state indication mode. Indication the destination by TEST mode power on.	T J C # ＊＊	Version indication Version code is next; 0x01:J,C 0x02:1U 0x03:D 0x04:E 0x05:2U 0x06:3U 0x07:UB 0x08:UT 0x09:4U 0x0a:UY 0x0b:EE 0x0c:UF Region indication (#part) Learning state and initialize state from backend are indicate displayed in 7th and 8th column of FL indication. It is blank indication in 0xFF. Learning state (7th column) 0x07:BCA CHECK OK incomplete DVD learning incomplete CD learning incomplete (indication 7) 0x06:BCA CHECK OK incomplete **DVD learning compleate** CD learning incomplete (indication 6) 0x05:BCA CHECK OK incomplete DVD learning incompleate **CD learning complete** (indication 5) 0x04:BCA CHEK OK incomplete **DVD learning complete** **CD learning complete** (indication 4) 0x03:**BCA CHECK OK complete** DVD learning incomplete CD learning incomplete (indication 3) 0x02:**BCA CHECK OK complete** **DVD learning complete** CD learning incomplete (indication 2) 0x01:**BCA CHECK OK compleate** DVD learning incomplete **CD learning complete** (indication 1) 0x00:**BCA CHECK OK compleate** **DVD learning complete** **CD learning complete** (indication 0) (Result of BCA READ CHECK becomes only BCA READ OK with completion.) Initial state (the 8th column) 0x03:FULL initialization end (indicate 3) 0x00:NORML initialization end (indicate 0) 0xFF:Initialization incomplete (Blank indication)
①	Press >>I key of main unit. (NORMAL initialize)		T J C # ＊＊	
②	Long press(4sec) STOP key of main unit. (FULL initialize)		T J C # ＊＊	
③	Press |<< key of main unit.	Mode to device key writing mode	D K E Y	Mode to device key writing mode. AVC protocol change to high speed mode
3	Press MENU key of remocon.	Device key check sum indication mode. Indication check sum of device key for FL. (4byte)	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	AVC protocol change from high speed mode to normal speed mode. (Release from test mode, it shhould change to normal speed mode.) CHECK SUM is displayed on FL. CPPM: ① ② ③ ④ CPRM: ⑤ ⑥ ⑦ ⑧
4 ①	Press MENU key of remocon.	Indication the micon version and Backend version for FL.	a b b c c c c	bb:Syscon Version a:Syscom Romcorr Version cccc:DVD Backend Version d:Mechacon Romcorr Version ee:Mechacon Version
②	Press MENU key of remocon.	Indication the mecha micon version for FL.	d e e	
5	Press MENU key of remocon.	All on the FL and LED.		
6	Press MENU key of remocon.	Indication the FRONT END check mode for FL.	C H E C K	
①	Press 1 at 10 key of remocon.	Disc startup and through playback (Playback starts from the start position).	C H E C K	
②	Press 4 at 10 key of remocon.	CD_LD on & Laser current indication.	＊＊＊＊＊＊＊＊	Upper:Laser current value (Backup value, Real measured value) Lower:0
③	Press 5 at 10 key of remocon.	DVD_LD on & Laser current indication.	＊＊＊＊＊＊＊＊	Upper:Laser current value (Backup value, Real measured value) Lower:0
④	Press 6 at 10 key of remocon.	DVD_SL x 1 jitter measurement mode.	＊＊＊＊＊＊＊＊	Upper:Laser current value (Backup value, Real measured value) Lower:0

STEP		OPERATION	MOVEMENT	FL (LCD) indication													REMARKS
				1	2	3	4	5	6	7	8	9	10	11	12	13	
	⑤	Press 10 at 10 key of remocon.	DVD-DL (parallel, opposite), Serch & jitter measurement of the specified position of DVD-SL.	*	*	*	*	*	*	*	*						Upper:0x00-0x06 (Measured position with VT-501) Lower:Jitter value
	⑥	Press STOP key of main unit/ remocon.	Disc stop, LD-OFF.		C	H	E	C	K								
	⑦	Press OPEN/CLOSE key of main unit/remocon.	Tray open/close.														
	⑧	Press PLAY key of main unit/ remocon.	Disc playback.	*	*	*	*	*	*	*	*						Upper:Laser current value (Backup value, Real measured value) Lower:Jitter value
7		Press MENU key of remocon.	Return to STEP2.														
		Press POWER key of main unit.	Releasr the TEST MODE.														When this key is pushed any STEP, the test mode is canceled.

*1 Mode toggle by press MENU key.
*2 STEP2-3 and STEP3 are only for DVD-AUDIO or VR correspondence model.

4.3 DVD special mode

4.3.1 Special mode

Mode name	Operation	Function
DVD up grade	Load up grade disc	Do the update the DVD firmware.
ROM CORR (System micon)	Load ROM CORR disc	Do the repair of system micon problem. Model number of ROM CORR is A300
ROM CORR (Mecha micon)	Load ROM CORR disc	Do the repair of mecha micon problem. Invalid the inside of TEST mode.

4.3.2 DVD upgrade

Processing	FL indication	Display (OSD) indication	Remarks
TOC READ	"READING"	NOW READING	TOC reading
DATA READ	"UPGRADE"	VERSION UP DISC PROGRAM&DESTINATION MODE CURRENT VERSION **** NEW VERSION **** READING.. SECTOR ****	Disc data reading Indicate firm current versin, new version and reminder sector quantity. Only [POWER] [OPEN/CLOSE] key of a main unit is validated.
WRITING	"_OPEN_"	VERSION UP DISC PROGRAM&DESTINATION MODE CURRENT VERSION **** NEW VERSION **** WRITING..	Writing the data to flash rom. Input a main unit and all the key of remote control are forbidden.
END	"_OPEN_"	OPEN	Upgrade completed. Prohibition of a key input is canceled as initialization end status.

4.3.3 ROM correction (System micon)

Processing	FL indication	Display (OSD) indication	Remarks
TOC READ	"READING"	NOW READING	TOC reading
DATA READ	"ROM_CORR"	VERSION UP DISC SYSCON UPG MODE CURRENT VERSION **** READING.. SECTOR 1	Disc data reading Indicate firm current versin. Only [POWER] [OPEN/CLOSE] key of a main unit is validated.
WRITING	"ROM_CORR"	VERSION UP DISC SYSCON UPG MODE CURRENT VERSION **** WRITING..	Writing the data to EEPROM. Input a main unit and all the key of remote control are forbidden.
END	"COMPLETE"	VERSION UP DISC SYSCON UP MODE CURRENT VERSION **** WRITING..	ROM CORRECTION completed. Prohibition of a key input is canceled as ROM CORR completed status.

*ROM CORR data confirm
The following processings are performed in order to prevent that fault occurs, when a new micon / the old micon / ROM collection is intermingled.
The data (ID) which a micon should make a judgment standard is stored in a [E2PROM] start address [2 bytes].
A data format presupposes that it is free (the version of the data which can be differentiated etc. is desirable).
When the [ROM coll data area] of [E2PROM] is read at the time of a reset start and data exists, it processes by judging whether it is by the [ROM coll] data which should be applied.
In the case of the data which should be applied [good] : It progresses to the following step by un-processing.
In the case of the data which should be applied and which does not come out, it is [no] : All the [ROM coll data area] of [E2PROM] is cleared (FF).

4.3.4 ROM correction (Mecha micon)

Processing	FL indication	Display (OSD) indication	Remarks
TOC READ	"READING_"	NOW READING	TOC reading
DATA READ	"READING_" "READING_"	VERSION UP DISC SYSCON UPG MODE CURRENT VERSION **** READING.. SECTOR 1	Disc data reading Indicate firm current versin. Only [POWER] [OPEN/CLOSE] key of a main unit is validated.
WRITING	"REDING_"	VERSION UP DISC SYSCON UPG MODE CURRENT VERSION **** WRITING..	Writing the data to EEPROM. Input a main unit and all the key of remote control are forbidden.
END	"MECH_OK_"	VERSION UP DISC SYSCON UP MODE CURRENT VERSION **** WRITING..	ROM CORRECTION completed. Prohibition of a key input is canceled as without disc type is UPGRADE status.

4.4 Key special mode

Mode name	Operation	Function
Tuner 9k/10k select (U*version)	Press STOP key & PLAY key together at TUNER AM then 9kHz step.	9kHz/10kHz step select of TUNER AM band. Indication "9k STEP" , "10k STEP"
	Press STOP key & PAUSE key together at TUNER AM then 10kHz step.	
TRAY LOCK	Press STOP key & EJECT1 key together at P.OFF.	Do the TRAY LOCK mode select. Temporaly P.ON operation, select "LOCKED", "UNLOCKED". (Not done P.ON operation). Transience (2sec.) indication end, and then return to P.OFF mode. When press the EJECT key at LOCK mode, at P.OFF condition tempraly P.ON operation and then transience (2sec.) indication "LOCKED". At P.ON condition, transience (2sec.) indication "LOCKED".
DVD TEST MODE	At AC off line condition, press PLAY+POWER together and keep condition, connect AC.	"Operation to TEST mode to on of DVD backend. Operation of internal TEST MODE is refer the TEST mode."

4.5 Remocon special mode

Mode name	Operation	Function
COLD START	2-times input at P.OFF.	"Fix by 2 time input, operation temporaly P.ON and then transience(3sec.) indication "COLD SET". Indication end, done the P.OFF mode. AC to off line, operation the COLD START.B330 : remote controller press POWER + STOP + 0 key together."
FL all on Preset frequency writeing	Input at P.ON.	"Rewrite preset frequency, LED on chek(each 300ms), FL all on. LED on turn: STANDBY - ILLUMI - REMOCON<VOL+> - <VOL->Volume control of key input, keep high-speed mode until POWER OFF. B331 : Remocon POWER + STOP + 1 key together"
Version indication	Input at P.ON.	"Indication turn Syscon version - Unit version - Distination, Chip select by transience(5 sec.). Syscon version : "SC ## $$" (## : Sys version,$: Sys ROM-corr) Unit version : "BE %%%% "(%%%% : Unit version) Distination, Chip select 1 : "$$K%H%"($$: sys distination, K% : KARAOKE H% : HDMI CS, S% : SOURCE CS % are each select status 0 or 1) B33E : Press remocon POWER + STOP + 10 key together."

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC
Victor Company of Japan, Limited
Audio/Video Systems Category 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB506)

Printed in Japan
VPT

PARTS LIST

TH-C30J,TH-C30C,TH-C20J,TH-C20C

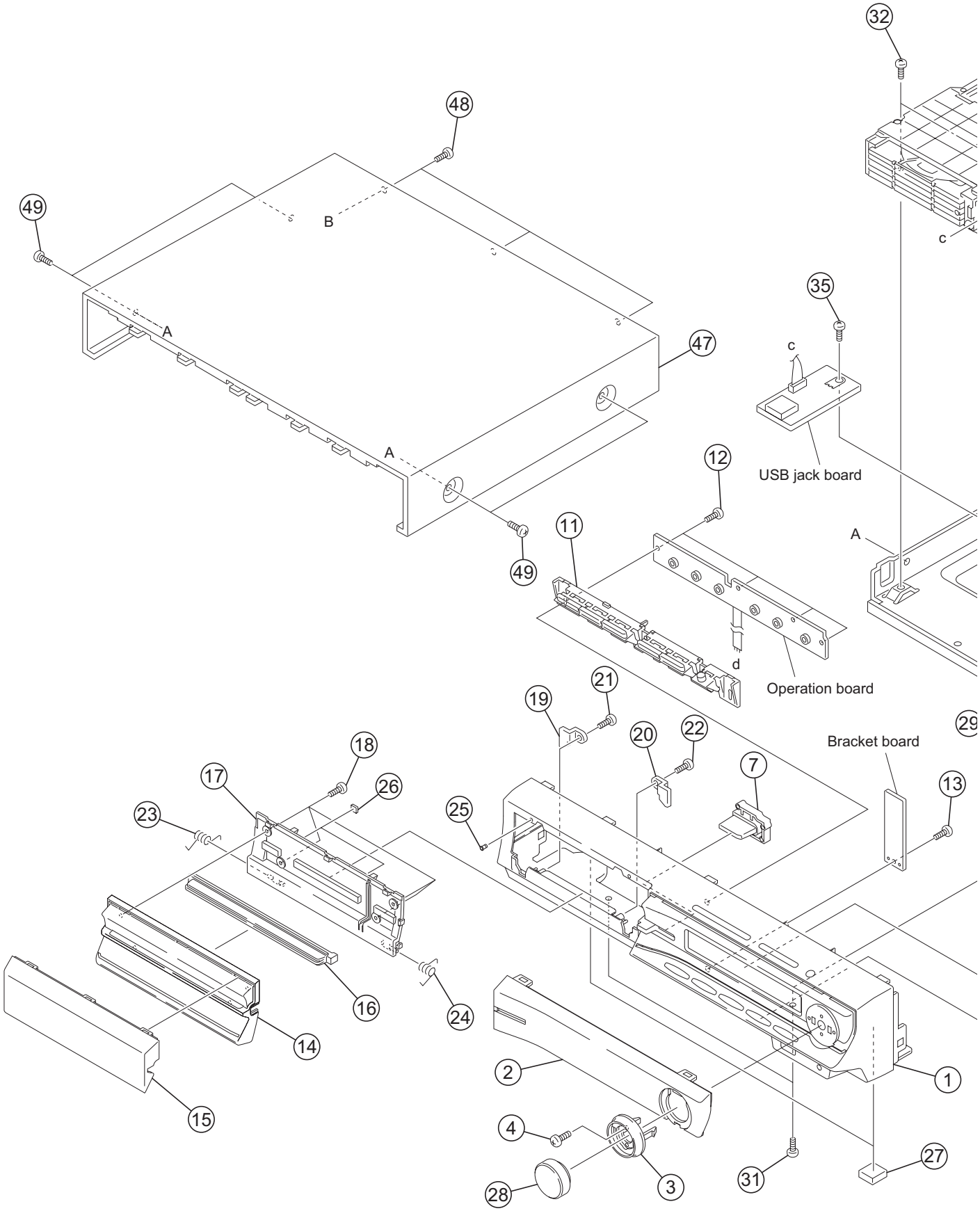
* All printed circuit boards and its assemblies are not available as service parts.

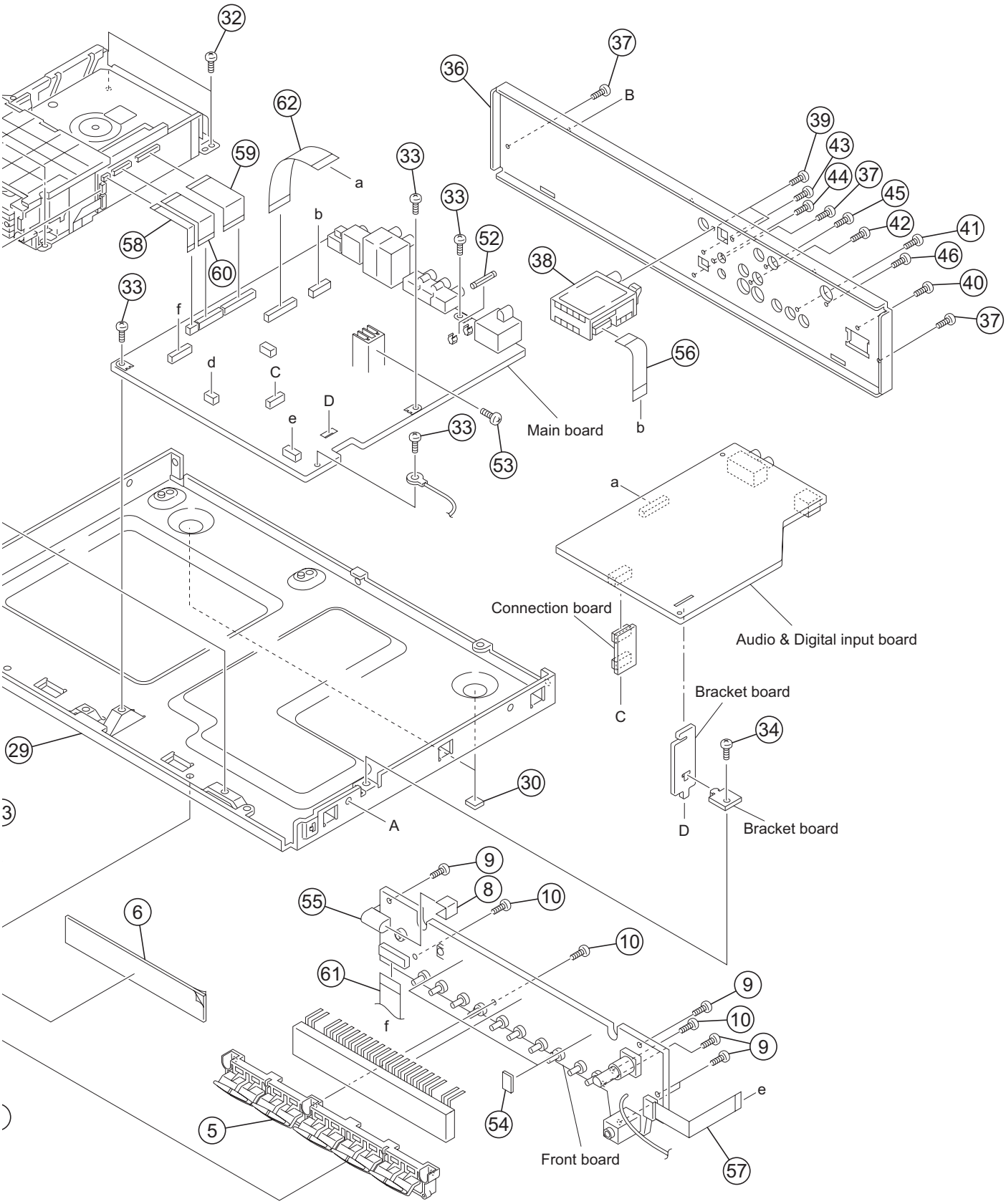
- Contents -

Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
Speaker assembly and parts list(Subwoofer) (Block No.M2) ---------- 3- 5
DVD mechanism assembly and parts list (Block No.MJ) ---------- 3- 7
DVD changer mechanism assembly and parts list (Block No.MK) ---------- 3- 9
Electrical parts list (Block No.01~05) ---------- 3-11
Packing materials and accessories parts list (Block No.M3) ---------- 3-22

Exploded view of general assembly and parts list

Block No. M 1 M M




Main board
Connection board
Audio & Digital input board
Bracket board
Bracket board
Front board

General Assembly

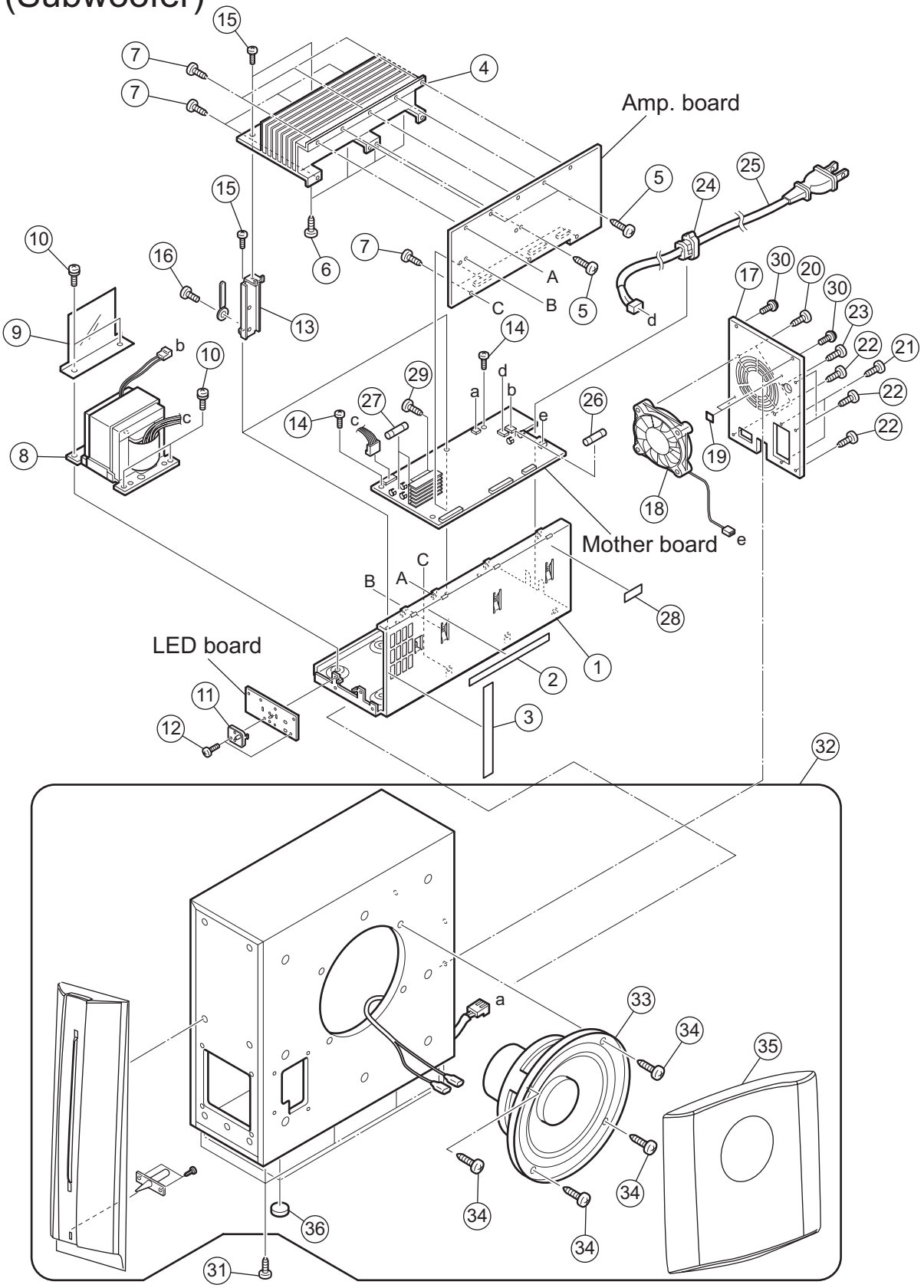
Block No. [M][1][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV11209-003A	FRONT PANEL		
	2	LV22243-001A	FRONT LENS		
	3	LV34588-001A	VOL RING		
	4	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	5	LV22242-002A	BUTTON(DISC)		
	6	LV42851-006A	FL SCREEN		
	7	LV36581-001A	POWER BTN ASSY		
	8	LV30227-045A	SPACER		
	9	QYSBSF2610ZA	TAP SCREW	M2.6 x 10mm(x5)	
	10	QYSBSF2610ZA	TAP SCREW	M2.6 x 10mm(x3)	
	11	LV22244-001A	BUTTON(TOP)		
	12	QYSBSF2610ZA	TAP SCREW	M2.6 x 10mm(x4)	
	13	QYSBSF2610ZA	TAP SCREW	M2.6 x 10mm	
	14	LV22246-002A	DOOR COVER		
	15	LV22247-005A	DOOR LENS		C30J,C30C
	15	LV22247-003A	DOOR LENS		C20J,C20C
	16	LV36583-001A	ILLUMI LENS		
	17	LV22245-001A	DOOR BASE		
	18	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x4)	
	19	LV41694-201A	DOOR BKT(L)		
	20	LV41695-201A	DOOR BKT(R)		
	21	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	22	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	23	LV44491-001A	DOOR SPRING(L)		
	24	LV44492-001A	DOOR SPRING(R)		
	25	E69897-002	CUSHION		
	26	LV30227-050A	SPACER	(x2)	
	27	LV40301-002A	FELT SPACER	(x2)	
	28	LV34594-001A	VOLUME KNOB		
	29	LV11210-001A	CHASSIS BASE		
	30	LV40301-002A	FELT SPACER	(x2)	
	31	QYSBST3006EA	TAP SCREW	M3 x 6mm(x2)	
	32	QYSBST3006EA	TAP SCREW	M3 x 6mm(x4)	
	33	QYSBST3006EA	TAP SCREW	M3 x 6mm(x4)	
	34	QYSBST3006EA	TAP SCREW	M3 x 6mm	
	35	QYSBST3006EA	TAP SCREW	M3 x 6mm	
	36	LV22249-019A	REAR PANEL		C30J,C30C
	36	LV22249-018A	REAR PANEL		C20J,C20C
	37	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x3)	
	38	QAU0412-001	TUNER		
	39	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x2)	
	40	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	41	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	42	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	43	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	44	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	45	QYSBSGY3008EA	TAP SCREW	M3 x 8mm	
	46	QYSBST3006EA	TAP SCREW	M3 x 6mm	
	47	LV22248-001A/S/	METAL COVER		
	48	QYSBSGY3008EA	TAP SCREW	M3 x 8mm(x3)	
	49	E406308-007	SPECIAL SCREW	(x4)	
⚠	52	QMFZ059-1R0-E	FUSE	F901 1A	
	53	QYSBSE3008ZA	TAP SCREW	M3 x 8mm	
	54	LV30227-051A	SPACER	(x2)	
	55	LV36587-001A	LED HOLDER		
	56	QUQQ12-1107CJ-E	FFC WIRE	11pin 7cm	
	57	QUQQ12-0712CJ-E	FFC WIRE	7pin 12cm	
	58	QUQV10-0507CJ-E	FFC WIRE	5pin 7cm	
	59	QUQV10-2807CJ-E	FFC WIRE	28pin 7cm	
	60	QUQV10-1807CJ-E	FFC WIRE	18pin 7cm	
	61	QUQV10-1715CJ-E	FFC WIRE	17pin 15cm	
	62	QUQV10-2507CJ-E	FFC WIRE	25pin 7cm	

Speaker assembly and parts list

Block No. M 2 M M

(Subwoofer)



The parts without symbol number are not service.

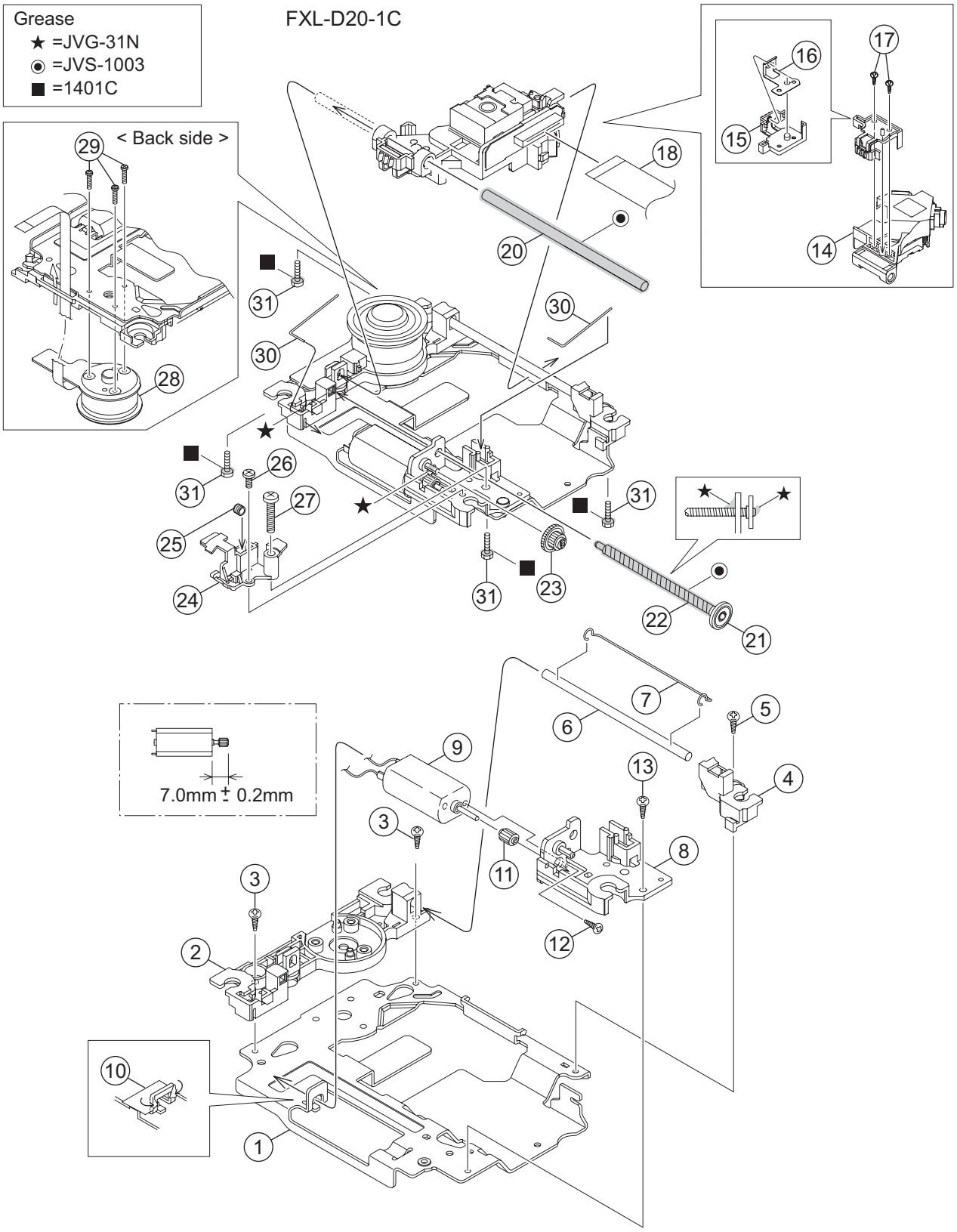
Speaker(Subwoofer)

Block No. [M][2][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV10875-002A	CHASSIS BASE		
	2	LV30225-0T5A	SPACER		
	3	LV30225-0T6A	SPACER		
	4	LV10951-201A	HEAT SINK		
	5	QYSBSG3010EA	TAP SCREW	M3 x 10mm(x3)	
	6	QYSBSG3016EA	TAP SCREW	M3 x 16mm(x4)	
	7	QYSBSG3010EA	TAP SCREW	M3 x 10mm(x9)	
⚠	8	QQT0482-004	POWER TRANSF		
	9	LV44309-201A	BARRIER		
	10	QYSDSTL4008EA	TAP SCREW	M4 x 8mm(x4)	
	11	LV43692-002A	LED HOLDER		
	12	QYSBSG3010EA	TAP SCREW	M3 x 10mm(x2)	
	13	LV34712-001A	HEAT SINK BKT	(x2)	
	14	QYSBSG3010EA	TAP SCREW	M3 x 10mm(x2)	
	15	QYSBSG3010EA	TAP SCREW	M3 x 10mm(x4)	
	16	QYSBSG3006ZA	TAP SCREW	M3 x 6mm(x2)	
	17	LV21652-027A	REAR PANEL		C30J,C30C
	17	LV21652-024A	REAR PANEL		C20J,C20C
	18	QAR0377-001	COOLING FAN		
	19	LV30225-0D5A	SPACER	(x2)	
	20	QYSBSGY3008MA	TAP SCREW	M3 x 8mm(x2)	
	21	QYSBSGY3008MA	TAP SCREW	M3 x 8mm(x2)	
	22	QYSBSGY3008MA	TAP SCREW	M3 x 8mm(x4)	
	23	QYSBST3006EA	TAP SCREW	M3 x 6mm	
⚠	24	QZW0033-001	STRAIN RELIEF		
⚠	25	QMPD330-200-JD	POWER CORD(US/CA)	2m BLACK	
⚠	26	QMF51U1-8R0-J8	FUSE	F101 8A AC125V	
⚠	27	QMF51U1-100-J8	FUSE	F153 F154 10A AC125V(x2)	
	28	LV43583-001A	LABEL		
	29	QYSPSPD3008ZA	SCREW	M3 x 8mm(x2)	
	30	QYSDSA4016MA	TAP SCREW	M4 x 16mm(x2)	
	31	QYSDST4014MA	TAP SCREW	M4 x 14mm(x8)	
	32	QAS0418-001	SPEAKER BOX	SPK WITH BOX-WO	
	33	LE10016-063A	CONE SPK		
	34	7001541606	TAPPING SCREW	(x4)	
	35	9916013701	SIDE PANEL ASSY		
	36	9000007961	FOOT	(x4)	

DVD mechanism assembly and parts list

Block No. M J M M



The parts without symbol number are not service.

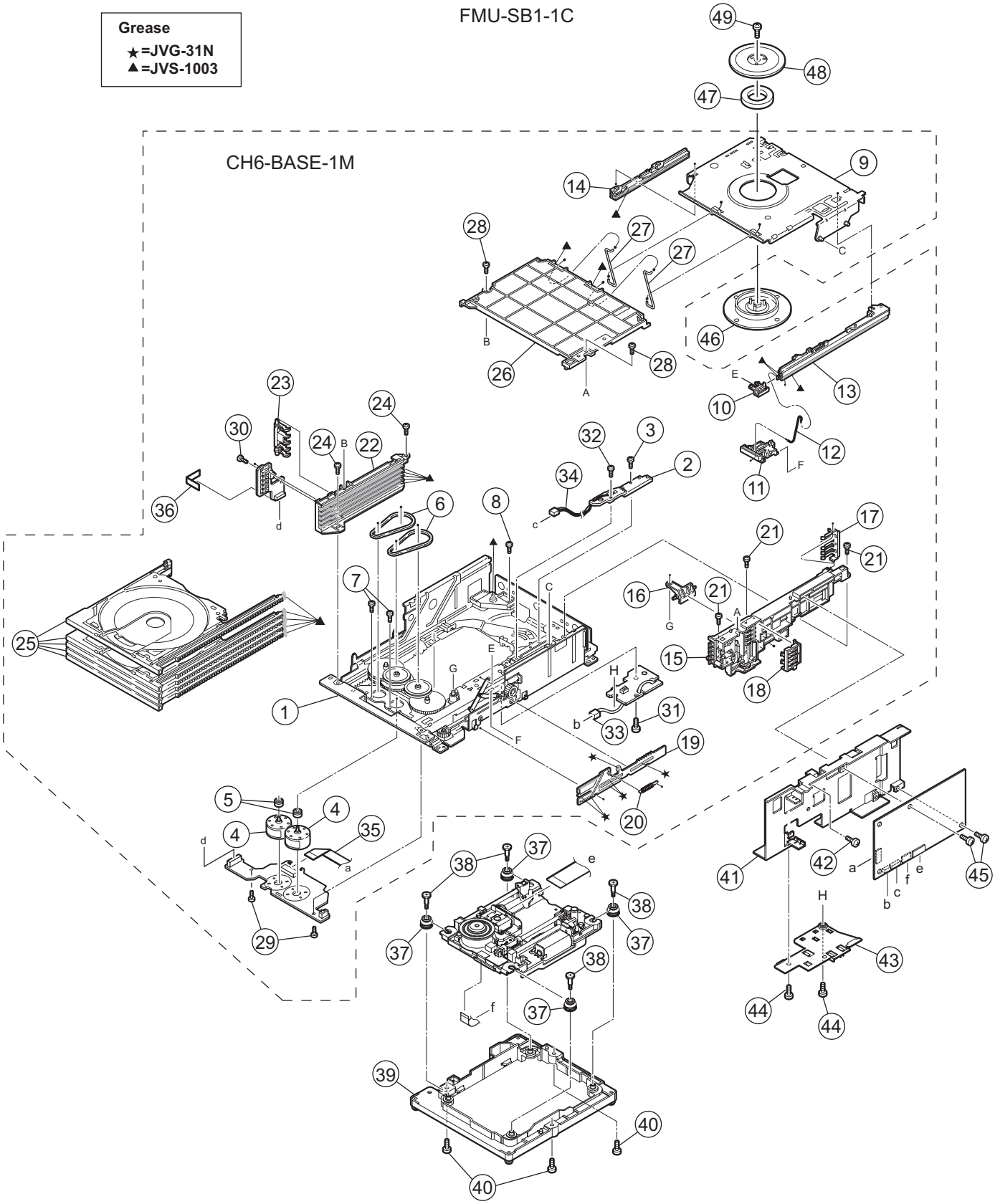
DVD mechanism

Block No. [M][J][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV22234-001A	TM.CHASSIS		
	2	LV22294-001A	C.SPINDLE BASE		
	3	QYSDST2005ZA	TAP SCREW	M2 x 5mm(x2)	
	4	LV36791-001A	C.G.S.HOLDER		
	5	QYSDST2005ZA	TAP SCREW	M2 x 5mm	
	6	LV44041-002A	GUIDE SHAFT		
	7	LV44479-001A	BAR SPRING		
	8	LV22236-001A	FEED HOLDER		
	9	QAR0165-001	FEED MOTOR		
	10	LV30225-0X5A	SPACER		
	11	LV36557-001A	F.M.GEAR		
	12	QYSPSPT2030MA	SCREW	M2 x 3mm	
	13	QYSDST2005ZA	TAP SCREW	M2 x 5mm	
	14	QAL0786-002	P.UP		
	15	LV22237-001A	RACK ARM		
	16	LV36560-001A	RACK ARM SPRING		
	17	QYSPSFU1740ZA	TAP SCREW	M1.7 x 4mm(x2)	
	18	QUQK05-2424AC-E	FFC WIRE	24pin 24cm	
	20	LV44041-002A	GUIDE SHAFT		
	21	LV36559-001A	L.S.GEAR		
	22	LV41517-003A	LEAD SCREW		
	23	LV36558-001A	MIDDLE GEAR		
	24	LV36556-001A	SPRING HOLDER		
	25	LV44623-001A	COMP.SPRING		
	26	QYSDST2005ZA	TAP SCREW	M2 x 5mm	
	27	QYSDST2616MA	TAP SCREW	M2.6 x 16mm	
	28	QAR0387-001	S.MOTOR		
	29	QYSPSPU1775ZA	SCREW	M1.7 x 7.5mm(x3)	
	30	LV44042-001A	ROD SPRING	(x2)	
	31	LE40858-002A	SPECIAL SCREW	(x4)	

DVD changer mechanism assembly and parts list

Block No. M K M M



The parts without symbol number are not service.

DVD changer mechanism

Block No. [M][K][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LV10913-007A	LOADER ASSY		
	2	QVY0027-B14	S V RESISTOR		
	3	QYSDST2004ZA	TAP SCREW	M2 x 4mm	
	4	QAR0164-001	MOTOR	(x2)	
	5	LV42340-001A	MOTOR PULLEY	(x2)	
	6	LV41431-002A	BELT	(x2)	
	7	QYSPSPU1725NA	SCREW	M1.7 x 2.5mm(x2)	
	8	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm	
	9	LV33965-008A	LIFTER ASSY		
	10	LV33963-001A	HOOK		
	11	LV33964-002A	HOOK STOPPER		
	12	LV43285-001A	ROD (L)		
	13	LV21408-002A	RAIL(R)		
	14	LV21409-002A	RAIL(L)		
	15	LV21520-005A	SIDE(R) ASSY		
	16	LV33974-002A	SELECT LEVER		
	17	LV33977-002A	CLICK SPRING		
	18	LV33975-001A	GEAR COVER		
	19	LV33976-002A	ELEVATOR CAM		
	20	LV43287-001A	ELEVATOR SPRING		
	21	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x3)	
	22	LV10749-003A	SIDE(L)		
	23	LV33980-002A	OPEN DET.LEVER		
	24	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x2)	
	25	LV10746-007A	TRAY ASSY	(x5)	
	26	LV10750-003A	TOP COVER		
	27	LV43289-003A	ROD	(x2)	
	28	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm(x2)	
	29	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x2)	
	30	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	31	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm	
	32	QYSDST2004ZA	TAP SCREW	M2 x 4mm	
	33	WJM0330-002A-E	E-SI C WIRE C-F		
	34	WJM0331-001A-E	E-SI C WIRE C-F		
	35	QUQW10-1521BF-E	FFC WIRE	15pin 21cm	
	36	LV30227-044A	SPACER		
	37	LE40900-003A	INSULATOR	(x4)	
	38	LV44045-001A	SPECIAL SCREW	(x4)	
	39	LV11252-002A	C.TM.HOLDER		
	40	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x3)	
	41	LV22274-001A	PWB BKT		
	42	QYSDSF2608ZA	TAP SCREW	M2.6 x 8mm	
	43	LV22275-001A	WIRE HOLDER		
	44	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x2)	
	45	QYSDST2605ZA	TAP SCREW	M2.6 x 5mm(x2)	
	46	LV32417-001A	CLAMPER		
	47	LV42930-003A	P.C.MAGNET		
	48	LV33992-001A	DVD YOKE		
	49	LE40906-002A	SPECIAL SCREW		

Electrical parts list

Main board

Block No. [0][1]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC411	MM1233XF-X	IC C/M		
IC431	MM1623XF-X	IC		
IC471	MN101C49GPW	IC MASK		
IC472	S-80840CNNB-G-W	IC		
IC473	SN74AHCT08NS-X	IC		
IC477	BR24L08F-W-X	IC(DIGITAL)		
IC481	TORX147	OPT RECEIVER		
IC491	KIA7805API	IC		
⚠ IC901	MIP4170MYSLJ	IC		
Q951	2SC3576-JVC-T	TRANSISTOR		
Q953	KTA1267/YG/-T	TRANSISTOR		
Q954	RTR030P02-X	MOS FET		
Q958	KTA1273/Y/-T	TRANSISTOR		
Q959	RT1N241C-X	DIGITAL TR		
Q965	RT1P441C-X	DIGI TRANSISTOR		
Q969	RT1N241C-X	DIGITAL TR		
Q974	RTR030P02-X	MOS FET		
Q979	RT1N241C-X	DIGITAL TR		
Q980	RT1N241C-X	DIGITAL TR		
Q982	KTA1267/YG/-T	TRANSISTOR		
Q983	KTC3203/OY/-T	TRANSISTOR		
Q984	RTR030P02-X	MOS FET		
Q989	RT1N241C-X	DIGITAL TR		
Q991	KTC3875/YG/-X	TRANSISTOR		
Q4091	KTA1271/OY/-T	TRANSISTOR		
Q4092	2SC3928A/QR/-X	TRANSISTOR		
Q4701	RT1N140C-X	DIGI TRANSISTOR		
Q4703	RT1N141C-X	DIGI TRANSISTOR		
Q4811	RT1P141C-X	DIGI TRANSISTOR		
Q4812	RT1N141C-X	DIGI TRANSISTOR		
Q4821	RT1N141C-X	DIGI TRANSISTOR		
Q4822	2SD2114K/VW/-X	TRANSISTOR		
Q4831	RT1N141C-X	DIGI TRANSISTOR		
Q4832	RT1P430C-X	TRANSISTOR		
Q4833	RT1N430C-X	TRANSISTOR		
Q4961	KTC3203/OY/-T	TRANSISTOR		
⚠ D901	DI106	BRIDGE DIODE		
D902	20NFA60-FC5	FR DIODE		
D904	FR104S-T5	FR DIODE		
D911	RB160M-30-X	SB DIODE		
D950	MTZJ24D-T2	Z DIODE I/M		
D951	FR104S-T5	FR DIODE		
D952	FR104S-T5	FR DIODE		
⚠ D954	UF202G-F26	FR EIODE		
D955	MA111-X	DIODE C.M		
⚠ D956	FR104S-T5	FR DIODE		
D960	MTZJ2.2A-T2	S.B.DIODE		
⚠ D973	SB360-F82	FUSEIODE		
D981	MTZJ4.3B-T2	Z DIODE		C30J
D992	MTZJ2.0A-T2	Z DIODE		
D993	MTZJ3.3B-T2	Z DIODE		
⚠ D998	1N4003S-T5	SI DIODE		
⚠ D999	1N4003S-T5	SI DIODE		
D4091	1SS133-T2	SI DIODE IM		
D4092	MTZJ6.8A-T2	Z DIODE		
D4093	1SS133-T2	SI DIODE IM		
D4703	MTZJ4.7B-T2	Z DIODE		
D4705	1SS133-T2	SI DIODE IM		
D4708	1SS133-T2	SI DIODE IM		
D4709	10EDB20-T4	DIODE		
D4811	1SS133-T2	SI DIODE IM		
D4831	1SS133-T2	SI DIODE IM		
D4832	1SS133-T2	SI DIODE IM		
D4833	1SS133-T2	SI DIODE IM		
D4834	1SS133-T2	SI DIODE IM		
D4835	MTZJ6.8A-T2	Z DIODE		
D4841	MTZJ2.0A-T2	Z DIODE		
D4842	MTZJ3.3A-T2	ZENER DIODE I/M		
D4891	MTZJ6.2C-T2	Z DIODE		
D4961	MTZJ4.7A-T2	Z DIODE		
D4962	1SS133-T2	SI DIODE IM		
D4963	1SS133-T2	SI DIODE IM		
⚠ PC901	PC123Y22FZ	PHOTO COUPLER		
⚠ C902	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M	
⚠ C903	QFZ9073-683	MM CAPACITOR	0.068uF AC250V M	
⚠ C904	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠ C905	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
⚠ C907	QETM2DM-157	E CAPACITOR	150uF 200V M	
C908	QCZ0401-222	C CAPACITOR	2200pF	
C909	QCZ0131-331	C CAPACITOR	330pF 2kV K	
C910	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C913	QCZ0403-221	C CAPACITOR	220pF	
C914	QEZ0658-476Z	E CAPACITOR	47uF	
⚠ C916	QCZ9079-222	C CAPACITOR	2200pF AC250V M	
C918	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C920	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C921	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C950	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C951	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C952	QCZ0136-101Z	C CAPACITOR	100pF 1kV K	
C954	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C955	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C956	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C957	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C960	QEZ0655-826Z	E CAPACITOR	82uF	
C961	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C962	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C963	QEZ0658-396Z	E CAPACITOR	39uF	
C964	QEZ0658-226Z	E CAPACITOR	22uF	
C968	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C969	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C973	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C975	QEZ0654-108Z	E CAPACITOR	1000uF	
C976	QEZ0654-477Z	E CAPACITOR	470uF 10V M	
C977	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C978	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C979	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C981	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C982	QEZ0656-567Z	E CAPACITOR	560uF	
C983	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C984	QEZ0655-227Z	E CAPACITOR	220uF	
C989	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C990	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C991	QCZ0202-155Z	C CAPACITOR	1.5uF 25V Z	
C992	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C993	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C994	QCBB1HK-223Y	C CAPACITOR	0.022uF 50V K	
C996	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C997	QEZ0655-227Z	E CAPACITOR	220uF	
C998	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C999	QEZ0655-827Z	E CAPACITOR	820uF	
C4002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C4006	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C4011	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C4012	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C4017	NCF21CZ-225X	C CAPACITOR	2.2uF 16V Z	
C4031	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C4032	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C4033	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C4034	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C4035	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C4036	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C4091	QETN1CM-226Z	E CAPACITOR	22uF 16V M	
C4092	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4101	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4102	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4111	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C4112	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4121	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4122	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4171	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4172	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4173	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4191	QETN1EM-476Z	E CAPACITOR	47uF 25V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C4192	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4301	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4311	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4321	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4331	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4351	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C4391	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4394	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4395	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C4401	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4402	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4411	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4412	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4421	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4423	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4431	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4432	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4441	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4442	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4451	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4452	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C4705	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4706	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4707	QETN1AM-477Z	E CAPACITOR	470uF 10V M	
C4708	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4709	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4710	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4711	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4718	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4719	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4771	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4772	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4773	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4774	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4791	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4844	NCF21CZ-105X	C CAPACITOR	1uF 16V Z	
C4891	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4892	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C4893	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C4904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C4961	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
R521	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R522	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R526	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R527	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R528	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R901	QRL02DJ-683X	OMF RESISTOR	68kΩ 2W J	
⚠ R903	QRZ9005-270X	FUSI RESISTOR	27Ω	
R904	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R905	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R908	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R909	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
⚠ R921	QRZ9037-335	COMP RESISTOR	3.3MΩ 1/2W K	
⚠ R922	QRZ9037-335	COMP RESISTOR	3.3MΩ 1/2W K	
R951	QRE141J-150Y	C RESISTOR	15Ω 1/4W J	
R952	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R953	NRSA02J-223X	MG RESISTOR	22kΩ 1/10W J	
⚠ R954	QRZ9005-100X	FUSI RESISTOR	10Ω	
R955	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R960	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R961	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R963	NRSA63D-121X	MG RESISTOR	120Ω 1/16W D	
R965	NRSA63J-132X	MG RESISTOR	1.3kΩ 1/16W J	
R968	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R969	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R971	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R972	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R973	QRT027J-R30	MF RESISTOR	0.3Ω 2W J	
R980	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R981	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R982	QRT027J-R56	MF RESISTOR	0.56Ω 2W J	
R983	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R984	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R985	QRE141J-132Y	C RESISTOR	1.3kΩ 1/4W J	
R986	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R987	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R988	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R989	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R990	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R991	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R4011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4091	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4092	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4093	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	
R4101	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4111	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4121	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4191	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R4201	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R4202	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R4211	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R4212	NRSA63J-301X	MG RESISTOR	300Ω 1/16W J	
R4221	NRSA63J-621X	MG RESISTOR	620Ω 1/16W J	
R4222	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4231	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R4232	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4241	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R4242	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4251	NRSA63J-511X	MG RESISTOR	510Ω 1/16W J	
R4252	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4411	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4421	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4431	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4441	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4451	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R4702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R4704	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4705	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R4707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4708	QRE141J-221Y	C RESISTOR	220Ω 1/4W J	
R4709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R4711	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4712	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4713	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4752	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R4753	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4754	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4756	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4757	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4758	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4759	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4760	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4761	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4762	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4763	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R4772	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4774	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4775	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4776	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4777	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4778	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4791	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
⚠ R4811	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω	
R4821	QRE141J-181Y	C RESISTOR	180Ω 1/4W J	
R4822	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4823	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R4824	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4825	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4826	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4827	QRE141J-151Y	C RESISTOR	150Ω 1/4W J	
R4831	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R4833	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R4834	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R4835	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4841	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R4843	QRT017J-2R2	MF RESISTOR	2.2Ω 1W J	
⚠ R4844	QRZ9005-470X	FUSI RESISTOR	47Ω	
R4846	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4848	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4849	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4851	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R4861	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4863	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4864	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R4866	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R4871	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4872	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4873	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4875	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4876	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R4881	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4882	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R4883	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4884	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R4886	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R4891	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4892	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R4893	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
⚠ R4921	QRZ9005-100X	FUSI RESISTOR	10Ω	
R4961	QRE141J-271Y	C RESISTOR	270Ω 1/4W J	
⚠ L901	QQR0908-001	LINE FILTER		
L951	QQL244K-R22Z	COIL	0.22uH K	
L955	QQL31AK-220Z	COIL	22uH K	
L957	QQL26AK-100Z	COIL	10uH K	
L972	QQL31AK-220Z	COIL	22uH K	
L4391	QQL25CK-221Z	COIL	220uH K	
⚠ T901	QQS0371-001	SW TRANSF		
CN402	QGF1036C2-28	CONNECTOR	FFC/FPC (1-28)	
CN403	QGF1036C2-18	CONNECTOR	FFC/FPC (1-18)	
CN404	QGF1036C2-05	CONNECTOR	FFC/FPC (1-5)	
CN410	QGF1205C2-11	CONNECTOR	FFC/FPC (1-11)	
CN411	QGF1036C2-25	CONNECTOR	FFC/FPC (1-25)	
CN413	QGB2501J1-06	CONNECTOR	B-B (1-6)	
CN450	QGF1036C2-17	CONNECTOR	FFC/FPC (1-17)	
CN451	QGF1205C2-07	CONNECTOR	FFC/FPC (1-7)	
CN457	QGD2504C1-03Z	CONNECTOR	(1-3)	
⚠ CP951	ICP-N10-T	IC PROTECTOR	400mA	
⚠ CP999	ICP-N20-T	IC PROTECTOR	800mA	
EP401	QNZ0870-001	EARTH PLATE		
EP901	QNZ0870-001	EARTH PLATE		
EP903	QNZ0870-001	EARTH PLATE		
FC901	QNG0003-001Z	FUSE CLIP		
FC902	QNG0003-001Z	FUSE CLIP		
FW521	QUM213-08DGZ4-E	PARA RIBON WIRE		
HS901	LV40057-002A	HEAT SINK		
J4401	QNN0570-001	PIN JACK		
J4402	QNN0572-001	PIN JACK		
J4891	QNS0089-001	3.5 JACK		
K4702	QQR0621-001Z	COIL		
⚠ P901	QNC0082-001	AC INLET		
PP401	QZW0112-001	WIRE CLAMP		
PP402	QZW0112-001	WIRE CLAMP		
PP403	QZW0112-001	WIRE CLAMP		
PP404	QZW0112-001	WIRE CLAMP		
S522	QSW1120-001Z	PUSH SW I.M		
S523	QSW1120-001Z	PUSH SW I.M		
S526	QSW1120-001Z	PUSH SW I.M		
S527	QSW1120-001Z	PUSH SW I.M		
S528	QSW1120-001Z	PUSH SW I.M		
S529	QSW1120-001Z	PUSH SW I.M		
X4701	QAX0246-001Z	C RESONATOR	8.00MHz	

Audio board

Block No. [0][2]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC101	R2S15902FP	IC		
IC111	RC4580ID-X	IC		
IC112	RC4580ID-X	IC		
IC113	RC4580ID-X	IC		
IC121	RC4580ID-X	IC		
IC131	RC4580ID-X	IC		
IC501	PT6315	IC		
IC511	GP1UM261XKVF	IR DETECT UNIT		
Q1101	2SA1530A/QR/-X	TRANSISTOR		
Q1102	RT1N141C-X	DIGI TRANSISTOR		
Q1121	IMX9-W	TRANSISTOR		
Q1122	IMX9-W	TRANSISTOR		
Q1123	IMX9-W	TRANSISTOR		
Q1131	RT1N141C-X	DIGI TRANSISTOR		
Q1132	2SA1530A/QR/-X	TRANSISTOR		
Q1133	IMX9-W	TRANSISTOR		
Q2921	KTC3203/OY/-T	TRANSISTOR		
D511	SLR-343VC/NPQ-T	LED		
D551	SELU2E10C-P	LED		
D2921	MTZJ11C-T2	Z DIODE		
D2922	1SS133-T2	SI DIODE IM		
C506	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C511	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C517	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C518	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C542	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1101	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C1102	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C1103	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1104	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C1112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C1170	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1171	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1172	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C1203	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1204	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1205	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1206	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1209	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1210	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1211	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1212	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1215	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1216	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1217	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C1218	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C1221	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1222	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1223	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1224	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1225	NDC31HJ-471X	C CAPACITOR	470pF 50V J	
C1226	NDC31HJ-470X	C CAPACITOR	47pF 50V J	
C1441	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1442	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C1443	QCBB1HK-222Y	C CAPACITOR	2200pF 50V K	
C1443 or	QDXB1CM-222Y	C CAPACITOR	2200pF 16V M	
C1444	QCBB1HK-222Y	C CAPACITOR	2200pF 50V K	
C1444 or	QDXB1CM-222Y	C CAPACITOR	2200pF 16V M	
C1445	QCBB1HK-222Y	C CAPACITOR	2200pF 50V K	
C1445 or	QDXB1CM-222Y	C CAPACITOR	2200pF 16V M	
C1446	QCBB1HK-222Y	C CAPACITOR	2200pF 50V K	
C1446 or	QDXB1CM-222Y	C CAPACITOR	2200pF 16V M	
C2501	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2502	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C2503	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C2504	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C2505	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C2506	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2511	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2512	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2513	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C2514	NCB21CK-224X	C CAPACITOR	0.22uF 16V K	
C2515	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C2516	NCB31CK-393X	C CAPACITOR	0.039uF 16V K	
C2517	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2518	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2521	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2522	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2530	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2532	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C2533	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2534	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C2535	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C2536	QFV61HJ-473Z	MF CAPACITOR	0.047uF 50V J	
C2537	QFV61HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C2538	QFV61HJ-473Z	MF CAPACITOR	0.047uF 50V J	
C2539	QFV61HJ-154Z	MF CAPACITOR	0.15uF 50V J	
C2540	QFV61HJ-223Z	MF CAPACITOR	0.022uF 50V J	
C2541	QFV61HJ-223Z	MF CAPACITOR	0.022uF 50V J	
C2550	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C2551	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C2552	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2553	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2554	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C2556	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2557	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2560	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C2601	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C2602	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C2603	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C2604	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
C2610	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C2611	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2921	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2922	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C6001	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C6002	NCB31CK-223X	C CAPACITOR	0.022uF 16V K	
C6003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6101	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C6102	NCB31HK-182X	C CAPACITOR	1800pF 50V K	
C6103	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C6104	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C6105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
R501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R502	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R505	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R506	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R511	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R531	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R532	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R533	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R534	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R536	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R537	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R538	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R539	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R541	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R552	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J	
R1101	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1102	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R1108	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R1109	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R1110	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1111	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1116	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1117	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1133	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1134	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1135	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1136	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1137	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1138	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1141	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1142	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1143	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1144	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1145	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1146	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1149	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1150	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1151	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1152	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R1155	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1156	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1158	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1159	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1160	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1161	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1162	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	C30J,C30C
R1162	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	C20J,C20C
R1163	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	C30J,C30C
R1163	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	C20J,C20C
R1164	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1165	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1166	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1167	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R1168	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R1169	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R1171	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1172	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1173	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1174	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1175	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1176	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R1181	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1182	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1183	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1184	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1185	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R1186	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2501	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2502	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R2503	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2505	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2506	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2511	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2512	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2513	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2514	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2520	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2521	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2551	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2552	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2553	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R2554	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2555	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2556	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2557	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2558	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2559	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2560	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2561	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2604	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2605	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2606	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2607	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2608	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R2609	QRE141J-390Y	C RESISTOR	39Ω 1/4W J	
R2610	QRE141J-390Y	C RESISTOR	39Ω 1/4W J	
R2611	QRE141J-100Y	C RESISTOR	10Ω 1/4W J	
R2612	QRE141J-100Y	C RESISTOR	10Ω 1/4W J	
R2613	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2614	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2620	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R2621	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2922	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6001	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6107	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
R6207	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	
CN101	QGB2501J1-06	CONNECTOR	B-B (1-6)	
CN102	QGF1036F2-25	CONNECTOR	FFC/FPC (1-25)	
CN414	QGB2501K2-06	CONNECTOR	B-B (1-6)	
CN415	QGB2501K2-06	CONNECTOR	B-B (1-6)	
CN501	QGF1036F2-17	CONNECTOR	FFC/FPC (1-17)	
CN502	QGF1205F2-07	CONNECTOR	FFC/FPC (1-7)	
CN511	WJP0079-002A-E	E-SH C WIRE C-B		
DI501	QLF0168-001	FL TUBE		
EP511	QNZ0870-001	EARTH PLATE		
J1101	QNN0598-001	PIN JACK		
J1103	QND0118-001	DIN CONNECTOR		
J6001	QNS0231-001	JACK		
J6101	QNZ0851-001	USB CONNECTOR		
JS541	QSW1059-001	JOG VOLUME		
K501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K6001	NQR0007-002X	FERRITE BEADS		
K6002	NQR0007-002X	FERRITE BEADS		
K6003	NQR0007-002X	FERRITE BEADS		
K6004	NQR0007-002X	FERRITE BEADS		
K6101	NQR0502-001X	FERRITE BEADS		
K6102	NQR0022-002X	FERRITE BEADS		
K6103	NQR0022-002X	FERRITE BEADS		
K6104	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
S521	QSW1120-001Z	PUSH SW I.M		
S531	QSW0522-002Z	PUSH SW I.M		
S532	QSW0522-002Z	PUSH SW I.M		
S533	QSW0522-002Z	PUSH SW I.M		
S534	QSW0522-002Z	PUSH SW I.M		
S535	QSW0522-002Z	PUSH SW I.M		
S536	QSW0522-002Z	PUSH SW I.M		
S537	QSW0522-002Z	PUSH SW I.M		
S538	QSW0522-002Z	PUSH SW I.M		
S539	QSW0522-002Z	PUSH SW I.M		
S540	QSW0522-002Z	PUSH SW I.M		

Mother board

Block No. [0][3]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC201	STK413-430	IC		C30J,C30C
⚠ IC201	STK413-400	IC		C20J,C20C
⚠ IC202	STK413-430	IC		C30J,C30C
⚠ IC202	STK413-400	IC		C20J,C20C
IC301	RC4558D-X	IC		
IC302	RC4558D-X	IC		
IC303	RC4558D-X	IC		
IC601	MN101C427NB	IC		
Q152	KTC2026/Y/	TRANSISTOR		
Q501	RT1P441C-X	DIGI TRANSISTOR		
Q502	2SC3928A/QR/-X	TRANSISTOR		
Q503	2SC3928A/QR/-X	TRANSISTOR		
Q504	2SA1530A/QR/-X	TRANSISTOR		
Q505	RT1N44HC-X	DIGI TRANSISTOR		
Q517	RT1N431C-X	TRANSISTOR		
Q523	2SC3928A/QR/-X	TRANSISTOR		
Q524	2SA1530A/QR/-X	TRANSISTOR		
Q525	2SC3928A/QR/-X	TRANSISTOR		
Q542	RT1N136C-X	DIGI TRANSISTOR		
Q603	2SC3928A/QR/-X	TRANSISTOR		
Q604	KTC3265/Y/-X	TRANSISTOR		
Q2101	2SA1530A/QR/-X	TRANSISTOR		
Q2201	2SA1530A/QR/-X	TRANSISTOR		
Q2301	2SA1530A/QR/-X	TRANSISTOR		
Q2401	2SA1530A/QR/-X	TRANSISTOR		
Q2501	2SA1530A/QR/-X	TRANSISTOR		
Q2601	2SA1530A/QR/-X	TRANSISTOR		
Q2701	2SC3928A/QR/-X	TRANSISTOR		
Q2702	KTA1046/Y/	TRANSISTOR		
Q2703	RT1N141C-X	DIGI TRANSISTOR		
Q2707	KTA1267/YG/-T	TRANSISTOR		
Q2708	KTC3199/GL/-T	TRANSISTOR		
Q3702	RT1P141C-X	DIGI TRANSISTOR		
Q3703	RT1N241C-X	DIGITAL TR		
Q3704	KTC2026/Y/	TRANSISTOR		
D101	1SS133-T2	SI DIODE IM		
⚠ D151	GBU803	BRIDGE DIODE		
⚠ D152	GBU803	BRIDGE DIODE		
D154	1SS133-T2	SI DIODE IM		
D163	1SS133-T2	SI DIODE IM		
D164	MTZJ6.2B-T2	Z DIODE		
D165	MTZJ6.8C-T2	Z DIODE		
D166	MTZJ6.8C-T2	Z DIODE		
D501	1SS133-T2	SI DIODE IM		
D504	1SS133-T2	SI DIODE IM		
D505	UDZS5.1B-X	Z DIODE		
D506	1SS133-T2	SI DIODE IM		
D507	1SS355-X	DIODE C.M		
D510	1SS133-T2	SI DIODE IM		
D514	1SS133-T2	SI DIODE IM		
D515	1SS133-T2	SI DIODE IM		
D516	MTZJ30C-T2	Z DIODE		
D521	MTZJ6.8C-T2	Z DIODE		
D535	1SS133-T2	SI DIODE IM		
D541	1SS133-T2	SI DIODE IM		
D543	1SS133-T2	SI DIODE IM		
D546	1SS133-T2	SI DIODE IM		
D548	1SS133-T2	SI DIODE IM		
D549	1SS133-T2	SI DIODE IM		
D550	1SS133-T2	SI DIODE IM		
D551	1SS133-T2	SI DIODE IM		
D553	1SS133-T2	SI DIODE IM		
D561	SLR-342MC-T12	LED		
D611	1SS133-T2	SI DIODE IM		
D612	1SS133-T2	SI DIODE IM		
D2101	1SS133-T2	SI DIODE IM		
D2201	1SS133-T2	SI DIODE IM		
D2301	1SS133-T2	SI DIODE IM		
D2401	1SS133-T2	SI DIODE IM		
D2501	1SS133-T2	SI DIODE IM		
D2601	1SS133-T2	SI DIODE IM		
D2701	MTZJ15C-T2	Z DIODE		
D2702	MTZJ15C-T2	Z DIODE		
D2703	MTZJ16C-T2	Z DIODE		
D2704	1SS133-T2	SI DIODE IM		
D2705	1SS133-T2	SI DIODE IM		
D3101	1SS133-T2	SI DIODE IM		
D3102	1SS133-T2	SI DIODE IM		
D3201	1SS133-T2	SI DIODE IM		
D3202	1SS133-T2	SI DIODE IM		
D3301	1SS133-T2	SI DIODE IM		
D3302	1SS133-T2	SI DIODE IM		
D3401	1SS133-T2	SI DIODE IM		
D3402	1SS133-T2	SI DIODE IM		
D3501	1SS133-T2	SI DIODE IM		
D3502	1SS133-T2	SI DIODE IM		
D3601	1SS133-T2	SI DIODE IM		
D3602	1SS133-T2	SI DIODE IM		
D3703	MTZJ15C-T2	Z DIODE		
⚠ C101	QCZ9105-472	C CAPACITOR	4700pF 250V M	
C153	NCF21HZ-473X	C CAPACITOR	0.047uF 50V Z	
C154	NCF21HZ-473X	C CAPACITOR	0.047uF 50V Z	
C155	NCF21HZ-473X	C CAPACITOR	0.047uF 50V Z	
C156	NCF21HZ-473X	C CAPACITOR	0.047uF 50V Z	
C157	NCF21HZ-223X	C CAPACITOR	0.022uF 50V Z	
C159	NCF21HZ-223X	C CAPACITOR	0.022uF 50V Z	
C161	QEZ0736-478	E CAPACITER	4700uF	C30J,C30C
C161	QETM1HM-338	E CAPACITOR	3300uF 50V M	C20J,C20C
C162	QEZ0736-478	E CAPACITER	4700uF	C30J,C30C

⚠ Symbol No.	Part No.	Part Name	Description	Local
C162	QETM1HM-338	E CAPACITOR	3300uF 50V M	C20J,C20C
C163	QETM1EM-478	E CAPACITOR	4700uF 25V M	
C164	QETM1EM-478	E CAPACITOR	4700uF 25V M	
C167	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C168	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C171	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C172	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C501	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C512	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C522	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C523	QETN1EM-107Z	E CAPACITOR	100uF 25V M	
C571	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C591	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C592	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C601	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C604	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C605	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C606	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2102	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	
C2103	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2104	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2105	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2106	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2107	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2108	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2202	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2203	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2204	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2205	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2206	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2207	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2208	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2302	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2303	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2304	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2305	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2306	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2307	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2308	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2402	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2403	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2404	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2405	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2406	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2407	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2408	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2502	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2503	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2504	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2505	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2506	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2507	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2508	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2602	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C2603	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
C2604	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C2605	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C2606	NDC31HJ-3R0X	C CAPACITOR	3pF 50V J	
C2607	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2608	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C2701	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2702	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C2703	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2704	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C2705	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2706	QETN1HM-107Z	E CAPACITOR	100uF 50V M	
C2707	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2711	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C2712	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C2713	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3101	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3104	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3201	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3204	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3301	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3304	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3401	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3404	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3501	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3504	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	
C3601	NCB31HK-152X	C CAPACITOR	1500pF 50V K	
C3604	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C3701	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3702	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3703	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3704	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3705	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3706	NCF31HZ-103X	C CAPACITOR	0.01uF 50V Z	
C3720	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C3721	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
R152	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
⚠ R163	QRJ146J-221X	UNF C RESISTOR	220Ω 1/4W J	
R164	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R165	QRL027J-391	OMF RESISTOR	390Ω 2W J	
R166	QRL027J-391	OMF RESISTOR	390Ω 2W J	
⚠ R171	QRL027J-470	OMF RESISTOR	47Ω 2W J	
R501	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R502	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R504	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R505	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R506	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R508	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R510	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R523	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R534	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R535	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R536	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R540	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R553	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R554	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R555	QRJ146J-271X	UNF C RESISTOR	270Ω 1/4W J	
R558	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R559	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R560	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R561	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R562	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R563	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R574	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R602	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R603	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R612	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R613	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R614	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R622	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R623	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R624	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R625	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R626	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R628	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R646	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R667	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R671	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2101	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2103	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2104	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2105	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2106	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2108	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2109	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2110	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2111	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2112	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R2113	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2114	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2203	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2204	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2205	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R2206	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2207	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2208	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2209	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2210	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2211	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2212	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R2213	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2214	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2301	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2303	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2304	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2305	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2306	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2308	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2309	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2310	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2311	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2312	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R2313	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2314	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2401	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2403	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2404	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2405	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2406	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2407	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2408	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2409	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2410	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2411	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2412	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R2413	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2414	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2503	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2504	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2505	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2506	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2507	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2508	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2509	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2510	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2511	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2512	NRSA63J-622X	MG RESISTOR	6.2kΩ 1/16W J	
R2513	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2514	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R2601	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R2603	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2604	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R2605	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R2606	QRZ0224-R22	EMIT RESISTOR	0.22Ω	
R2607	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2608	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R2609	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2610	QRK126J-4R7X	UNF C RESISTOR	4.7Ω 1/2W J	
R2611	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R2612	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J	
R2613	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
⚠ R2701	QRZ9005-220X	FUSI RESISTOR	22Ω	
⚠ R2702	QRJ146J-220X	UNF C RESISTOR	22Ω 1/4W J	
R2703	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2704	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2705	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
⚠ R2706	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω	
⚠ R2707	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω	
⚠ R2708	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω	
⚠ R2709	QRZ9006-4R7X	FUSI RESISTOR	4.7Ω	
⚠ R2710	QRZ9005-100X	FUSI RESISTOR	10Ω	
R2711	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R2712	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2713	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R2721	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R2722	QRE141J-472Y	C RESISTOR	4.7kΩ 1/4W J	
R3101	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R3104	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R3105	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3106	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3107	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3109	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3110	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3111	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3201	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R3204	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3205	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3206	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3207	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3209	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3210	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3211	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3301	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R3304	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3305	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3306	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3307	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3309	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3310	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3311	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3401	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R3404	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3405	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3406	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3407	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3409	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3410	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3411	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3501	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R3504	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3505	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J	
R3506	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R3507	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	
R3509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R3510	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3511	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3601	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R3604	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R3605	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	
R3607	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3610	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R3611	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R3717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R3719	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
⚠ R3720	QRJ146J-100X	UNF C RESISTOR	10Ω 1/4W J	
R3721	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
⚠ R3727	QRL01DJ-180X	OMF RESISTOR	18Ω 1W J	
R3732	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
L2101	QQLZ005-R45	COIL	0.45uH	
L2201	QQLZ005-R45	COIL	0.45uH	
L2301	QQLZ005-R45	COIL	0.45uH	
L2401	QQLZ005-R45	COIL	0.45uH	
L2501	QQLZ005-R45	COIL	0.45uH	
L2601	QQLZ005-R45	COIL	0.45uH	
⚠ CN101	QGA7901C1-02	CONNECTOR	W-B (1-2)	
⚠ CN102	QGA7901C1-02	CONNECTOR	W-B (1-2)	
CN151	QGA3901C1-05	CONNECTOR	W-B (1-5)	
CN271	QGB2510J1-14	CONNECTOR	B-B (1-14)	
CN272	QGB2510J1-09	CONNECTOR	B-B (1-9)	
CN273	QGB2510J1-14	CONNECTOR	B-B (1-14)	
CN274	QGA3901C1-02	CONNECTOR	W-B (1-2)	
CN371	QGA2501C1-02	CONNECTOR	W-B (1-2)	
CN372	QGB2510K2-09	CONNECTOR	B-B (1-9)	
CN501	QGB2510K2-14	CONNECTOR	B-B (1-14)	
CN502	QGB2510K2-14	CONNECTOR	B-B (1-14)	
EP201	QNZ0136-001Z	EARTH PLATE		
EP501	QNZ0136-001Z	EARTH PLATE		
FC102	QNG0019-001Z	FUSE CLIP		
FC156	QNG0019-001Z	FUSE CLIP		
FC158	QNG0019-001Z	FUSE CLIP		
FW501	QUM213-28Z4Z4-E	RIBBON WIRE		
HS151	QZW0138-001	HEAT SINK		
J2701	QND0118-001	DIN CONNECTOR		
J2702	QNB0195-001	SPEAKER TERMINA		

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠RY101	QSK0142-001	RELAY		
RY271	QSK0127-001	RELAY		
RY272	QSK0127-001	RELAY		
RY273	QSK0127-001	RELAY		
TH271	NAD0025-103X	N THERMISTOR	10kΩ	
WC201	QZW0112-001	WIRE CLAMP		
X601	QAX0246-001Z	C RESONATOR	8.00MHz	

DVD servo board

Block No. [0][4]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC201	LA6502-X	IC		
IC301	MN2DS0016AA	IC		
IC302	MM1701CH-X	IC		
IC303	XC2164A51FM-X	IC		
IC305	MM1563DF-X	IC		
IC451	MN101C61GNW	IC		
IC452	BR93L56RF-W-X	IC		
IC453	S-80830CNNB-G-W	IC		
IC505	K4S641632H-UC75	IC		
IC505 or	K4S641632K-UC75	IC		
IC509	SG32M90TFIR3	IC(MICRO C ROM)		
IC509 or	SG32A90TFIR3	IC(MICRO C ROM)		
IC510	BR24L16F-W-X	IC		
IC701	AK4387ET-X	IC		
IC702	AK4387ET-X	IC		
IC703	AK4387ET-X	IC		
IC704	AK5358ET-X	IC		
IC705	MM1615AN-X	IC		
IC801	MM1565AF-X	IC		
IC811	ISP1106DH-X	IC		
Q101	KTA1001/Y/-X	TRANSISTOR		
Q101 or	2SB1424/R/-W	TRANSISTOR		
Q102	2SC4617/R/-X	TRANSISTOR		
Q103	KTA1001/Y/-X	TRANSISTOR		
Q103 or	2SB1424/R/-W	TRANSISTOR		
Q104	2SC4617/R/-X	TRANSISTOR		
Q801	KRA104S-X	DIGI TRANSISTOR		
Q801 or	UN2113-X	DIGI TRANSISTOR		
C101	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C102	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C103	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C104	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C105	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C106	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C107	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C108	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C201	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C202	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C204	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C205	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C206	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C211	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C217	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C251	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C256	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C257	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C258	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C259	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C260	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C261	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C262	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C263	NEAF1CM-107X	E CAPACITOR	100uF 16V M	
C301	NEAF0GM-227X	E CAPACITOR	220uF 4V M	
C302	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C303	NEAF0GM-476X	E CAPACITOR	47uF 4V M	
C304	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C305	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C306	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C307	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C308	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C309	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C310	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C311	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C312	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C314	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C316	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C317	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C318	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C319	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C321	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C322	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C324	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C325	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C326	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C327	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C328	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C330	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C331	NCB31CK-333X	C CAPACITOR	0.033uF 16V K	
C332	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C333	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C334	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C335	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C337	NCB31CK-183X	C CAPACITOR	0.018uF 16V K	
C338	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C339	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C340	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C341	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C345	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C347	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C348	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C349	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C350	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C351	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C352	NCB31CK-153X	C CAPACITOR	0.015uF 16V K	
C353	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C354	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C356	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C359	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C370	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C371	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C372	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C373	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C374	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C375	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C378	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C379	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C380	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C381	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C382	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C383	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C393	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C451	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C452	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C453	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C454	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C455	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C551	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C554	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C555	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C557	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C558	NBE20JM-226X	TA E CAPACITOR	22uF 6.3V M	
C559	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C560	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C562	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C563	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C564	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C701	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C702	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C703	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C704	NEAF0JM-476X	E CAPACITOR	47uF 6.3V M	
C706	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C707	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C708	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C709	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C711	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C713	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C740	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C741	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C742	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C743	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C744	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C745	NEAF1CM-106X	E CAPACITOR	10uF 16V M	
C801	NCB21CK-105X	C CAPACITOR	1uF 16V K	
C802	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C803	NEAF0JM-227X	E CAPACITOR	220uF 6.3V M	
C804	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C811	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
C812	NCF31EZ-104X	C CAPACITOR	0.1uF 25V Z	
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R103	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R104	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R105	NRS181J-180X	MG RESISTOR	18Ω 1/8W J	
R106	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R107	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R108	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R109	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R111	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R112	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R113	NRS181J-180X	MG RESISTOR	18Ω 1/8W J	
R114	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R115	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R116	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R125	NRSA63J-1R0X	MG RESISTOR	1Ω 1/16W J	
R127	NRSA63J-432X	MG RESISTOR	4.3kΩ 1/16W J	
R128	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R201	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R204	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R205	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R206	NRSA63J-303X	MG RESISTOR	30kΩ 1/16W J	
R207	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R213	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R219	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R220	NRSA63J-243X	MG RESISTOR	24kΩ 1/16W J	
R221	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R251	NRS125J-R39X	MG RESISTOR	0.39Ω 1/2W J	
R259	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R303	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R306	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R307	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R309	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R311	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R312	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R316	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R318	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	
R319	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R322	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R323	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R324	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R325	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R326	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R327	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R332	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R333	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R335	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R336	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R337	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R340	NRSA63D-303X	MG RESISTOR	30kΩ 1/16W D	
R341	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R342	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D	
R345	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R346	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R347	NRSA63J-203X	MG RESISTOR	20kΩ 1/16W J	
R348	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R350	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R351	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R352	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R353	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R357	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R358	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R359	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R360	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R362	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	
R367	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R371	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D	
R372	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R373	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R375	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R376	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R383	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R384	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R385	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R392	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R452	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R453	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R454	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R455	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R456	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R457	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R458	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R461	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R463	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R464	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R465	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R535	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R541	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R542	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R701	NRSA63J-2R2X	MG RESISTOR	2.2Ω 1/16W J	
R714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R716	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R718	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R719	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R721	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R723	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R724	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R725	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R727	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R728	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R730	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R741	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R742	NRSA63J-5R1X	MG RESISTOR	5.1Ω 1/16W J	
R799	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R811	NRS125J-330X	MG RESISTOR	33Ω 1/2W J	
R812	NRS125J-330X	MG RESISTOR	33Ω 1/2W J	
R813	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R814	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R819	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R821	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R822	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R823	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R855	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R856	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R857	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R858	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R859	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R860	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R861	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
CN101	QGF0523F3-24W	CONNECTOR	FFC/FPC (1-24)	
CN201	QGF1016F8-08W	CONNECTOR	FFC/FPC (1-8)	
CN451	QGF1016F8-15W	CONNECTOR	FFC/FPC (1-15)	
CN452	QGA2001F6-02X	CONNECTOR	W-B (1-2)	
CN453	QGA2001F6-03X	CONNECTOR	W-B (1-3)	
CN701	QGF1016C6-28W	CONNECTOR	FFC/FPC (1-28)	

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN702	QGF1016C6-18W	CONNECTOR	FFC/FPC (1-18)	
CN801	QGF1016C6-05W	CONNECTOR	FFC/FPC (1-5)	
CN811	QGA2001F6-05X	CONNECTOR	W-B (1-5)	
K101	NQR0502-001X	FERRITE BEADS		
K351	NQR0502-001X	FERRITE BEADS		
K352	NQR0502-001X	FERRITE BEADS		
K353	NQR0502-001X	FERRITE BEADS		
K354	NQR0022-002X	FERRITE BEADS		
K454	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K455	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K456	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K501	NQR0502-001X	FERRITE BEADS		
K701	NQR0022-002X	FERRITE BEADS		
K702	NQR0022-002X	FERRITE BEADS		
K703	NQR0022-002X	FERRITE BEADS		
K704	NQR0022-002X	FERRITE BEADS		
K705	NQR0022-002X	FERRITE BEADS		
K706	NQR0022-005X	FERRITE BEADS		
K707	NQR0022-002X	FERRITE BEADS		
K708	NQR0022-002X	FERRITE BEADS		
K709	NQR0022-002X	FERRITE BEADS		
K710	NQR0022-002X	FERRITE BEADS		
K711	NQR0022-002X	FERRITE BEADS		
K720	NQR0022-002X	FERRITE BEADS		
K721	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K722	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K810	NQR0502-001X	FERRITE BEADS		
K811	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
K812	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
TH301	NAD0025-103X	N THERMISTOR	10kΩ	
X301	NAX0741-001X	CRYSTAL		
X302	NAX0376-002X	CRYSTAL		
X451	NAX0248-001X	C OSCILLATOR		

DVD loading board

Block No. [0][5]

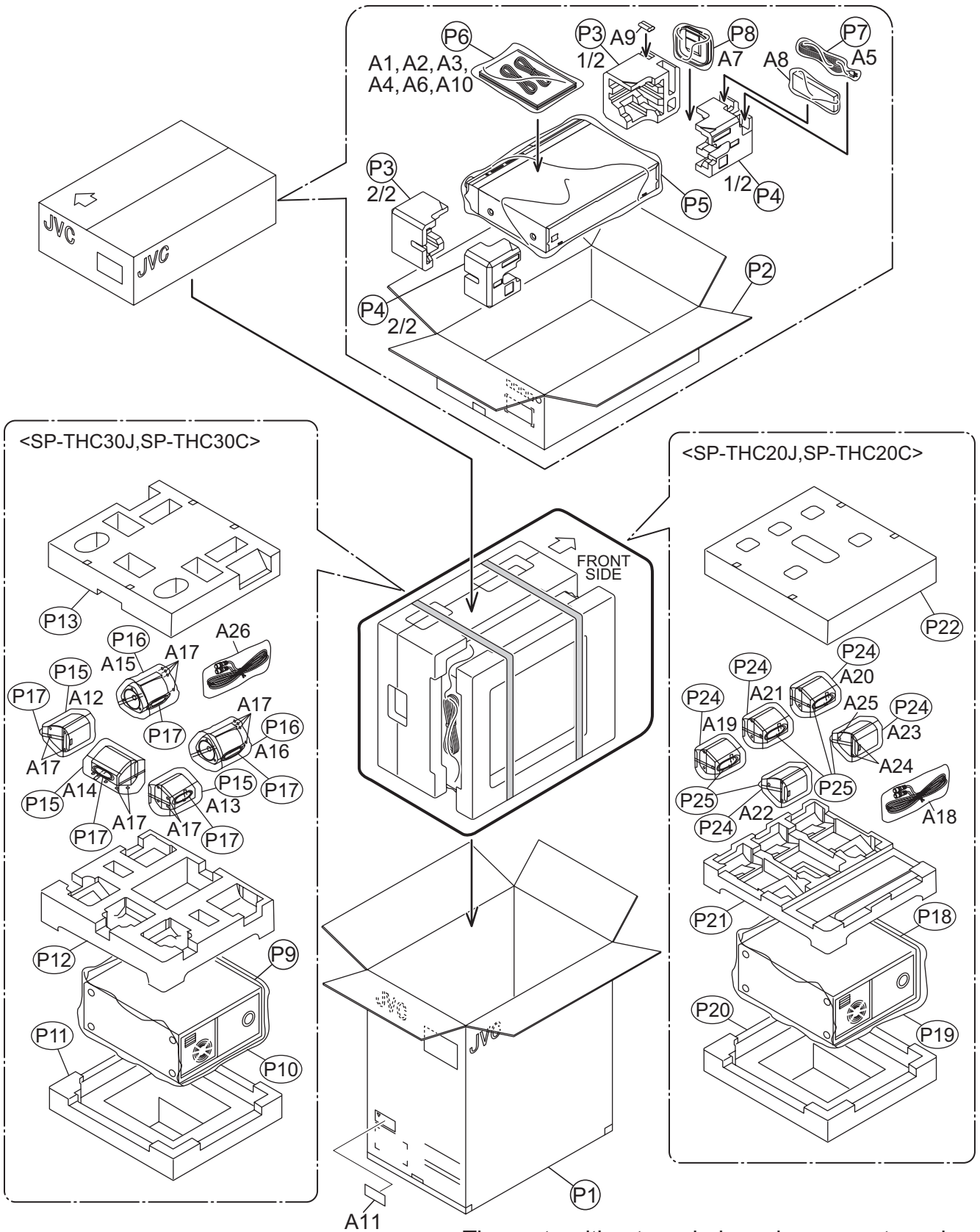
⚠ Symbol No.	Part No.	Part Name	Description	Local
IC1	LB1641	IC		
IC2	LB1641	IC		
D1	MTZJ6.2A-T2	Z DIODE		
C1	QEKC1CM-107Z	E CAPACITOR	100uF 16V M	
C2	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C3	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C5	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C6	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
C7	QCBB1HK-104Y	C CAPACITOR	0.1uF 50V K	
CN1	QGF1036F2-15	CONNECTOR	FFC/FPC (1-15)	
CN2	QGB2024K1-07S	CONNECTOR	B-B (1-7)	
CN3	QGB2024J1-07S	CONNECTOR	B-B (1-7)	
SW1	QSW0844-002	PUSH SWITCH		
SW2	QSW0844-002	PUSH SWITCH		
SW3	QSW0844-002	PUSH SWITCH		
SW4	QSW0844-002	PUSH SWITCH		
SW5	QSW0844-002	PUSH SWITCH		
SW6	QSW0854-002	PUSH SW		
SW7	QSW0886-002	DETECT SWITCH		
SW8	QSW0923-001	DETECT SWITCH		

< MEMEO >

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDs are available.



The parts without symbol number are not service.

Packing and Accessories

Block No. [M][3][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LVT1504-001A	INST BOOK	ENG	C30J,C20J
	A 1	LVT1504-002A	INST BOOK	ENG FRE	C30C,C20C
	A 2	YU20333	SAFETY INST.		
	A 3	BT-51034-2	REGISTRATION CARD		C30J,C20J
	A 4	QAM0216-001	SIGNAL CORD		
⚠	A 5	QMPE180-183-JN	POWER CORD(US/CA)	1.83m BLACK	
	A 6	QAL0457-001	ANT.WIRE		
	A 7	QAL0014-003	AM LOOP ANT		
	A 8	RM-STHC60J	REMOCON UNIT		
	A 9	----------	BATTERY	(x2)	
	A 10	----------	WARRANTY CARD	BT-52006-2	C30C,C20C
	A 11	LE40796-001A	VERANCE LABEL		
	A 12	AB080073-02	SPEAKER BOX	SPK WITH BOX-FL	C30J,C30C
	A 13	AB080073-01	SPEAKER BOX	SPK WITH BOX-FR	C30J,C30C
	A 14	AB080074-01	SPEAKER BOX	SPK WITH BOX-C	C30J,C30C
	A 15	AB080072-02	SPEAKER BOX	SPK WITH BOX-SL	C30J,C30C
	A 16	AB080072-01	SPEAKER BOX	SPK WITH BOX-SR	C30J,C30C
	A 17	9000008401	RUBBER CUSHION	(x20)	C30J,C30C
	A 18	6200044901	DIN CABLE		C20J,C20C
	A 19	AB080078-03	SPEAKER BOX	SPK WITH BOX-FL	C20J,C20C
	A 20	AB080078-02	SPEAKER BOX	SPK WITH BOX-FR	C20J,C20C
	A 21	AB080078-01	SPEAKER BOX	SPK WITH BOX-C	C20J,C20C
	A 22	AB080078-05	SPEAKER BOX	SPK WITH BOX-SL	C20J,C20C
	A 23	AB080078-04	SPEAKER BOX	SPK WITH BOX-SR	C20J,C20C
	A 24	9000008401	FOOT	(x10)	C20J,C20C
	A 25	9000009501	FOOT	(x5)	C20J,C20C
	A 26	6200044901	DIN CABLE		C30J,C30C
	P 1	LV36907-003A	MASTER CARTON		C30J,C30C
	P 1	LV36907-001A	MASTER CARTON		C20J,C20C
	P 2	LV36596-010A	CARTON BOX		C30J,C30C
	P 2	LV36596-008A	CARTON BOX		C20J,C20C
	P 3	LV22251-001A	CUSHION(F)		
	P 4	LV22252-001A	CUSHION(R)		
	P 5	QPC05006515P	POLY BAG	50cm x 65cm	
	P 6	QPA02503503P	POLY BAG	25cm x 35cm	
	P 7	QPA01003003	POLY BAG	10cm x 30cm	
	P 8	QPA01702503P	POLY BAG	17cm x 25cm	
	P 9	8500051881	MIRROR MAT		C30J,C30C
	P 10	8500051901	POLY BAG		C30J,C30C
	P 11	LV11261-001A	CUSHION A		C30J,C30C
	P 12	LV11261-002A	CUSHION B		C30J,C30C
	P 13	LV11261-003A	CUSHION C		C30J,C30C
	P 15	8500051961	POLY BAG	(x3)	C30J,C30C
	P 16	8500043421	POLY BAG	(x2)	C30J,C30C
	P 17	8500052241	POLY BAG	(x5)	C30J,C30C
	P 18	8500051881	MIRROR MAT		C20J,C20C
	P 19	8500051901	POLY BAG		C20J,C20C
	P 20	LV11255-001A	CUSHION A		C20J,C20C
	P 21	LV11255-002A	CUSHION B		C20J,C20C
	P 22	LV11255-003A	CUSHION C		C20J,C20C
	P 24	8500063111	MIRROR MAT SHEET	(x5)	C20J,C20C
	P 25	8500052241	POLY BAG	(x5)	C20J,C20C

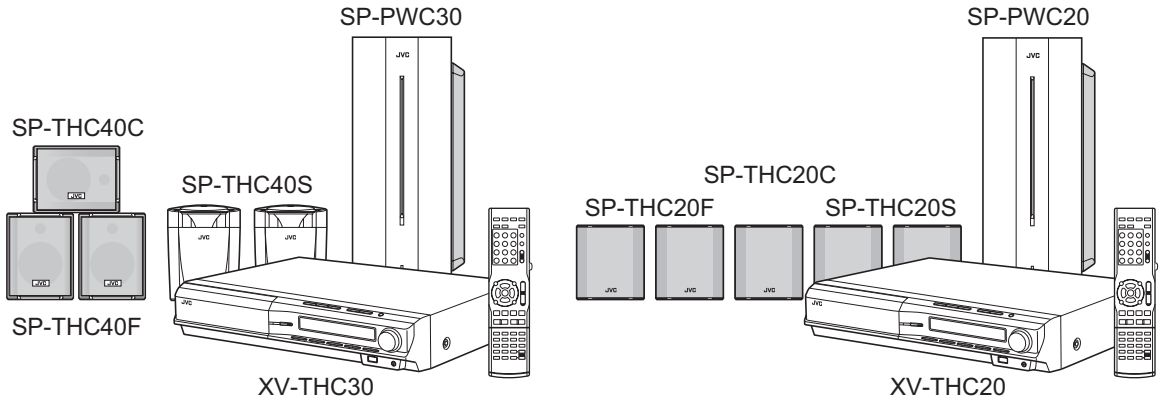
JVC

SCHEMATIC DIAGRAMS

DVD DIGITAL THEATER SYSTEM

TH-C30J,TH-C30C
TH-C20J,TH-C20C

CD-ROM No.SML200603



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Contents

Block diagrams ---------- 2-1
Standard schematic diagrams ---------- 2-3
Printed circuit boards ---------- 2-25 to 30

COPYRIGHT ©2006 Victor Company of Japan, Limited.

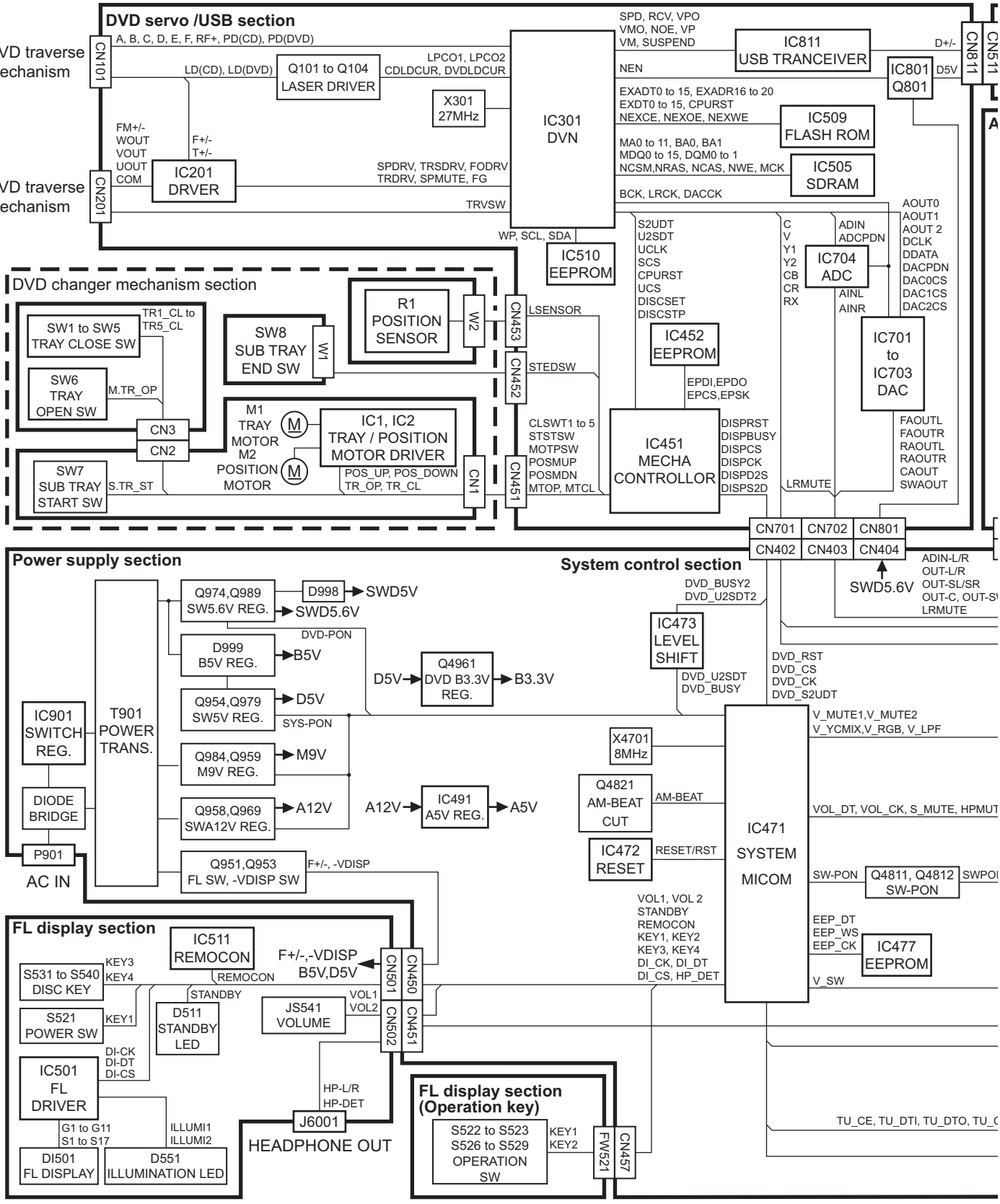
No.MB506SCH
2006/3

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (⬤) or identified by the "⚠" mark nearby are critical for safety.

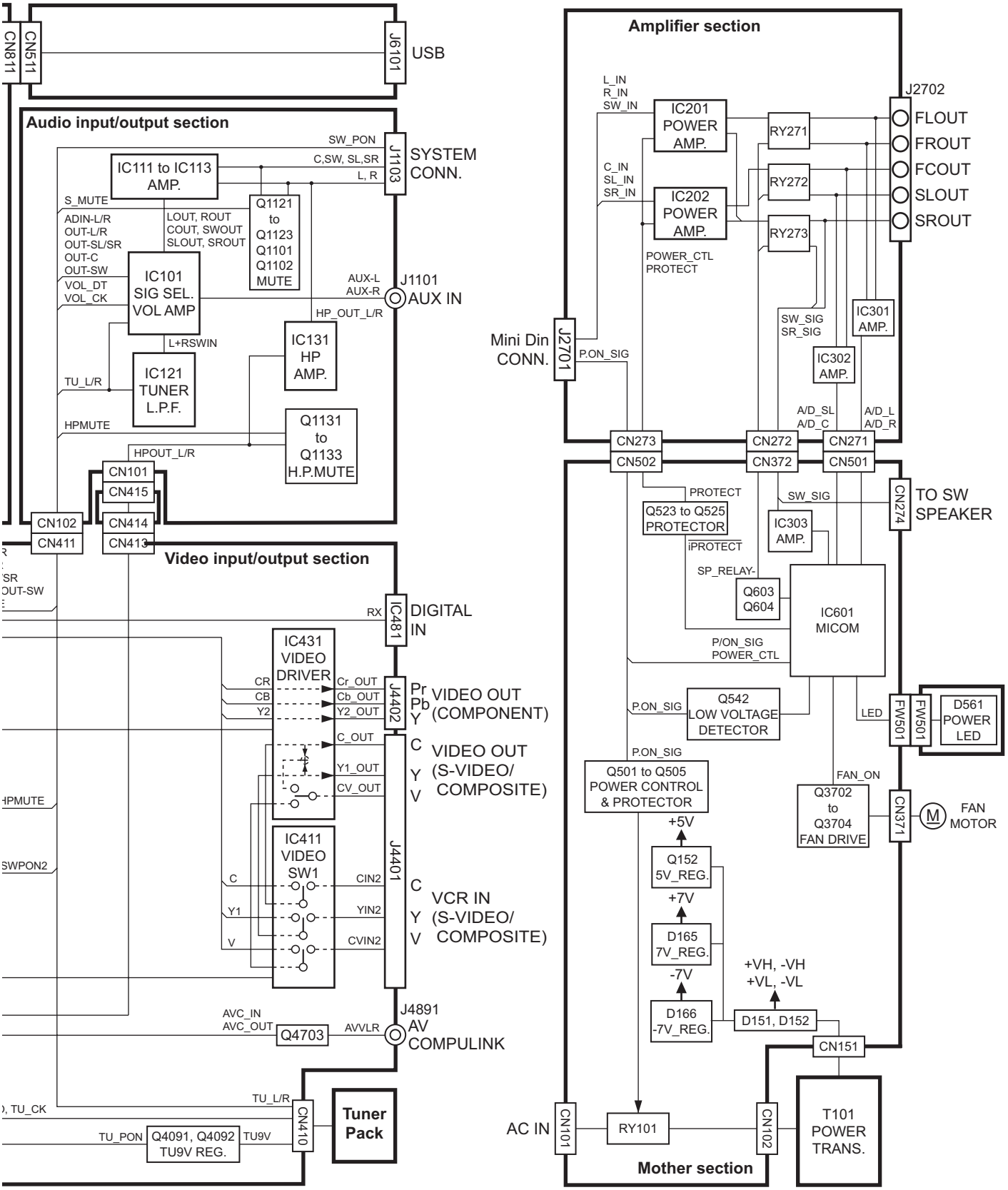
< MEMO >

Block diagram

<Main body section>



<Subwoofer section>



Standard schematic diagrams

■ Primary section

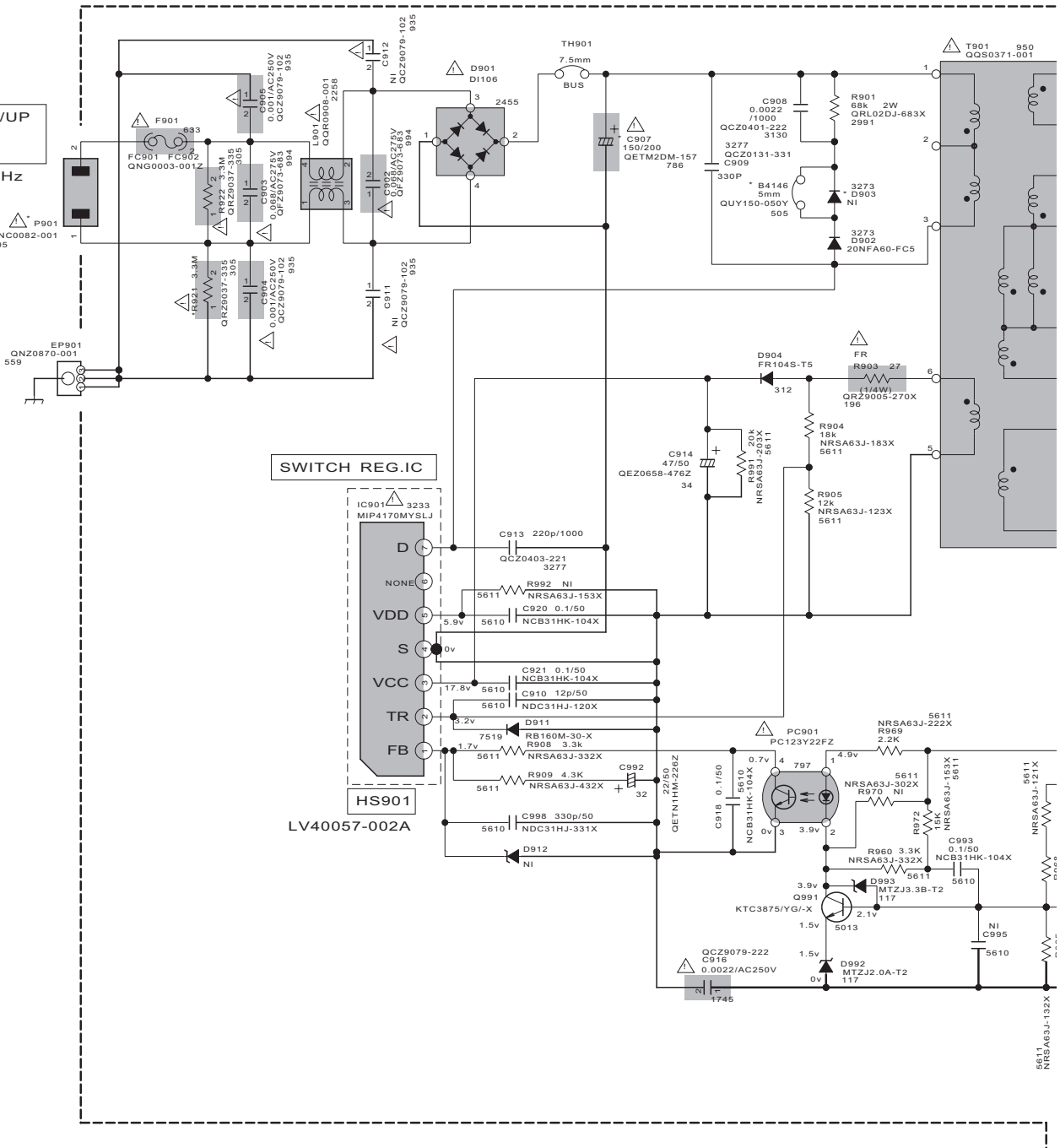
Ver.J/C
120V 60Hz

Ver.UW/UJ/UY/UP
US/UX/UG/UT
110-240V 50/60Hz

Ver.A
240V 50Hz

Ver.EE
230V 50Hz

Ver.UF
220V 50Hz

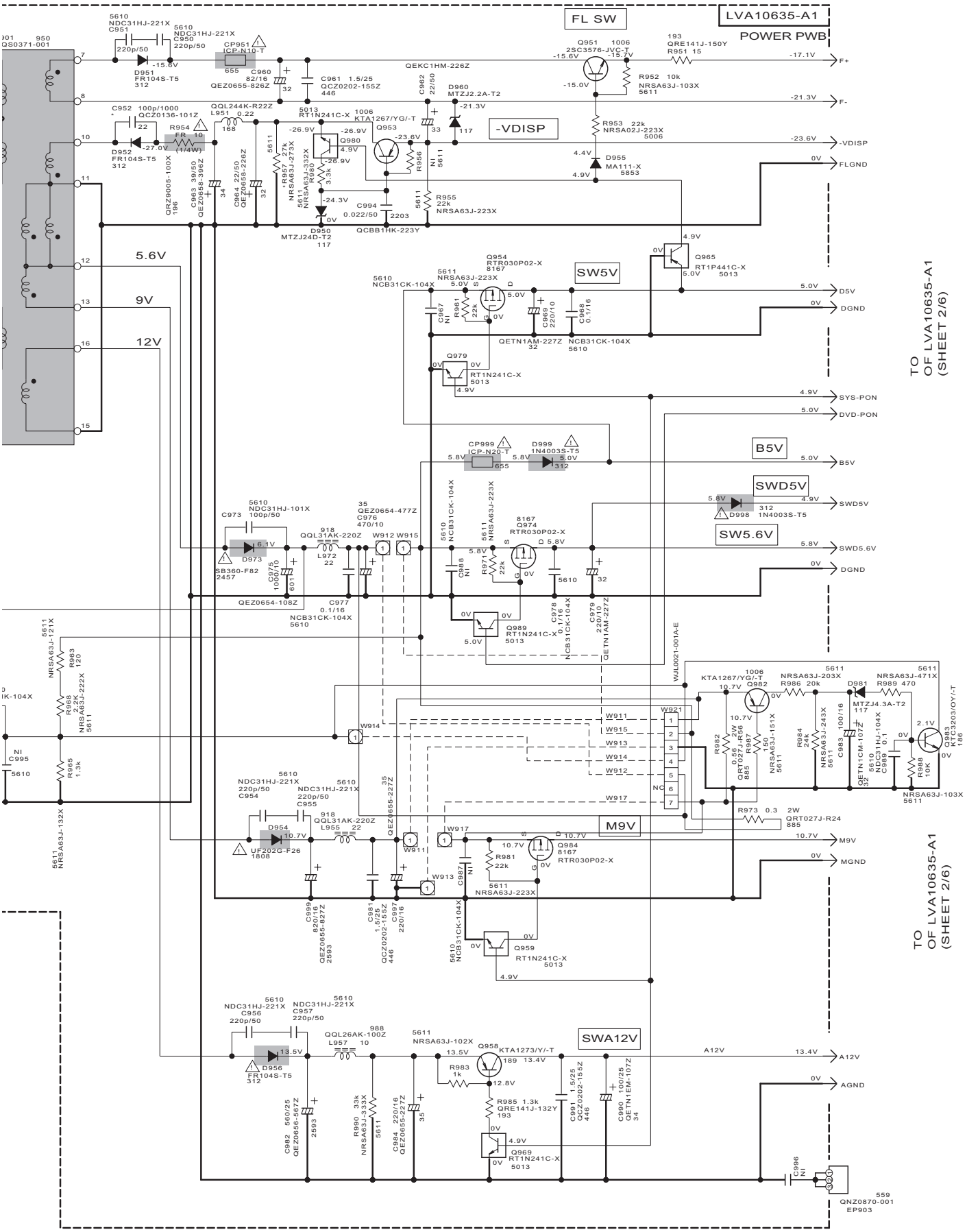


Ver. / REF No.	ADDRESS	D	J/C	B	UY/UW/UJ/UP US/UX/UG/UT A/EE
*C907	(B-5)		QETM2DM-157		QETM2GM-107
*D903	(B-7)		QUY150-050Y BUS WIRE:5mm		20NFA60-FC5
*C952	(B-8)		QCZ0136-101Z		QCZ0136-102Z
*R957	(B-9)		NONE		NRSA63J-273X
~~*R955~~	~~(B-10)~~		~~NRSA63J-223X~~		~~NONE~~
*R921	(C-3)		QRZ9037-335		NONE
*P901	(B-2)		QNC0082-001		QNC0081-001
*B4146	(B-6)		QUY150-050Y		NONE

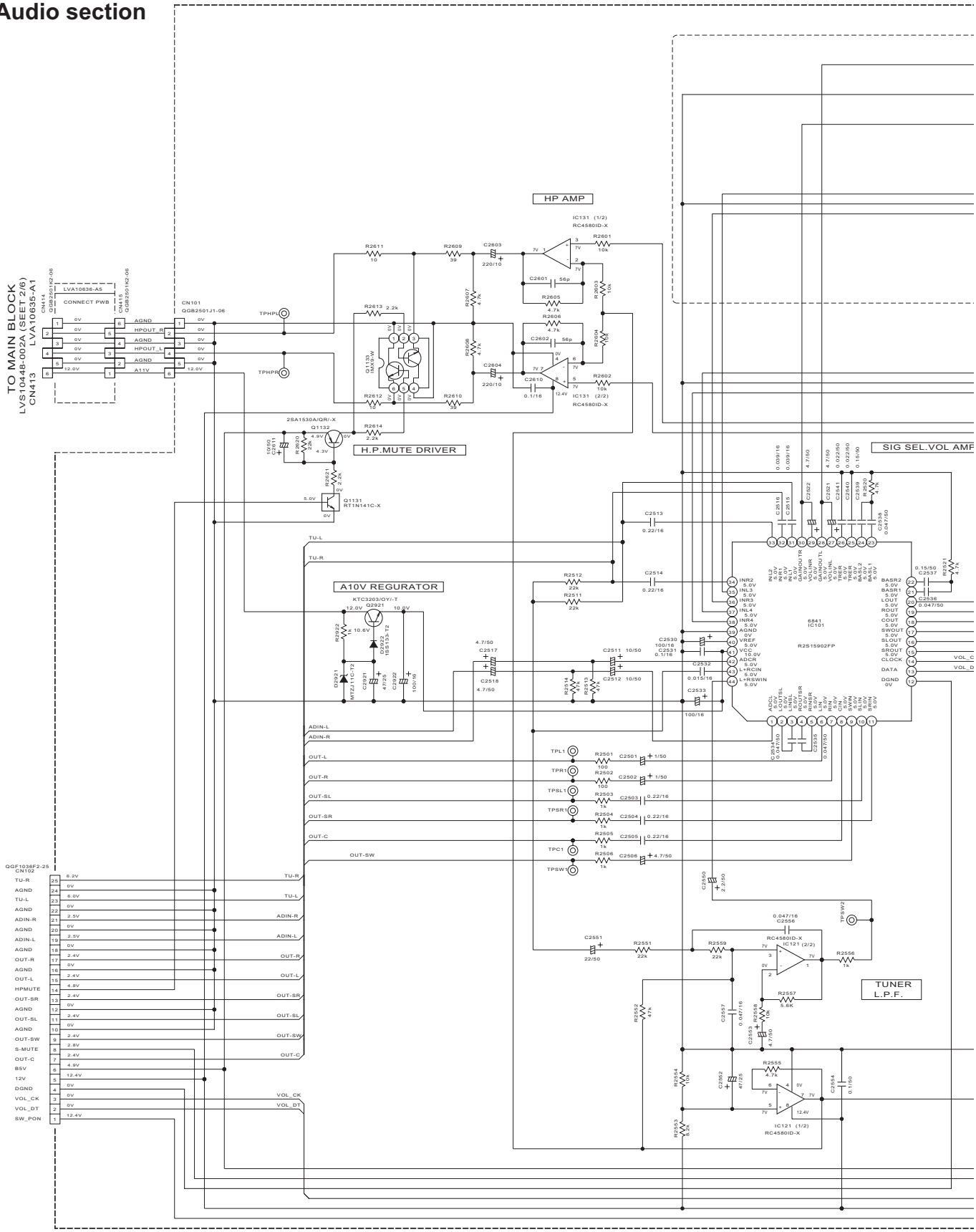
VERSION CODES

J :U.S.A.
C :CANADA
B :GREAT BRITAIN
UW:BRAZIL/MEXICO/PERU
UY:ARGENTINE
UJ:USA MILITALY BASE
A :AUSTRALIA
US :SINGAPORE
UG:TURKEY/EGYPT/SOUTH AFRICA
UN:INDONESIA
UX:SAUDI ARABIA
UT:TAIWAN

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.


LVA10635-A1
POWER PWB
FL SW
-VDISP
SW5V
B5V
SWD5V
SW5.6V
M9V
SWA12V
5.6V
9V
12V
F+
F-
-VDISP
FLGND
D5V
DGND
SYS-PON
DVD-PON
B5V
SWD5V
SWD5.6V
DGND
M9V
MGND
A12V
AGND
TO OF LVA10635-A1 (SHEET 2/6)
TO OF LVA10635-A1 (SHEET 2/6)

■ Audio section



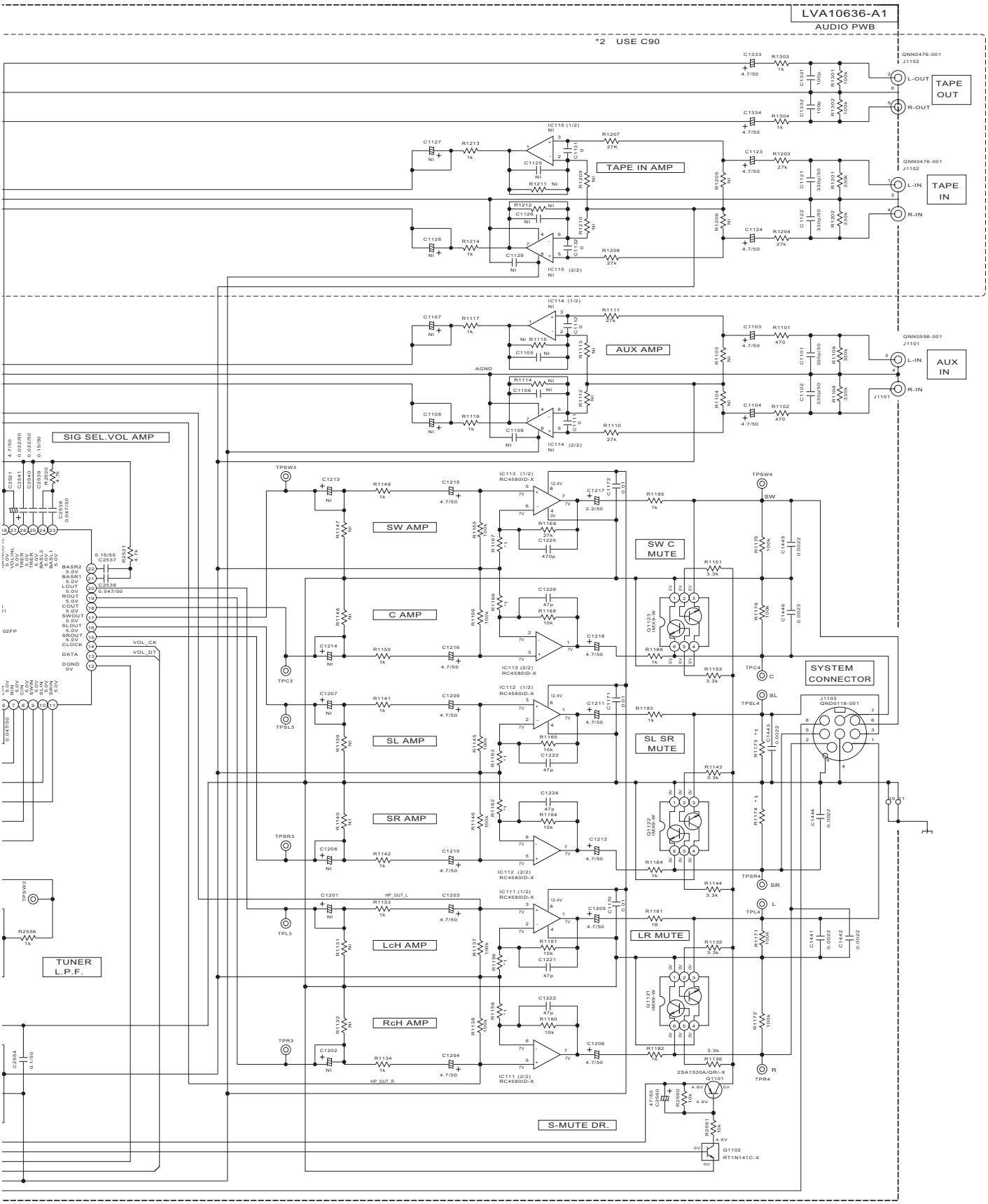
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- A CD disc in the Tray 1, and PLAY mode.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.

*1

	R1158 R1159	F
XV-THC20	10k	
XV-THC30/40	10k	
XV-THC50	10k	
XV-THC60	10k	

*2 USE C90

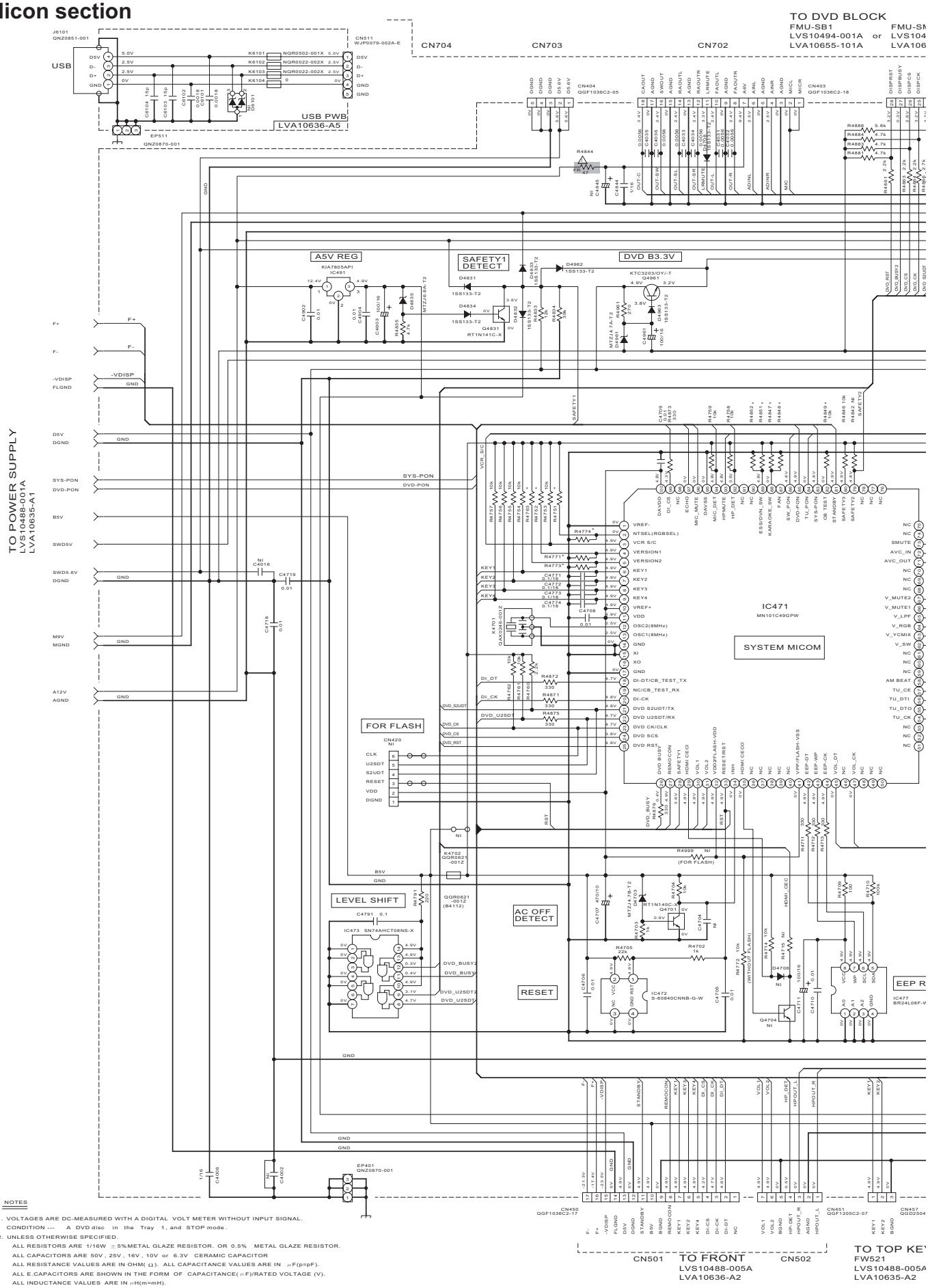


*1

	R1158 R1159	R1162 R1163	R1166	R1167	R1173 R1174		
XV-THC20	10k	68k	10k	18k	100k		
XV-THC30/40	10k	10k	10k	18k	100k		
XV-THC50	10k	10k	13k	15k	100k		
XV-THC60	10k	-	13k	12k	3.9k		

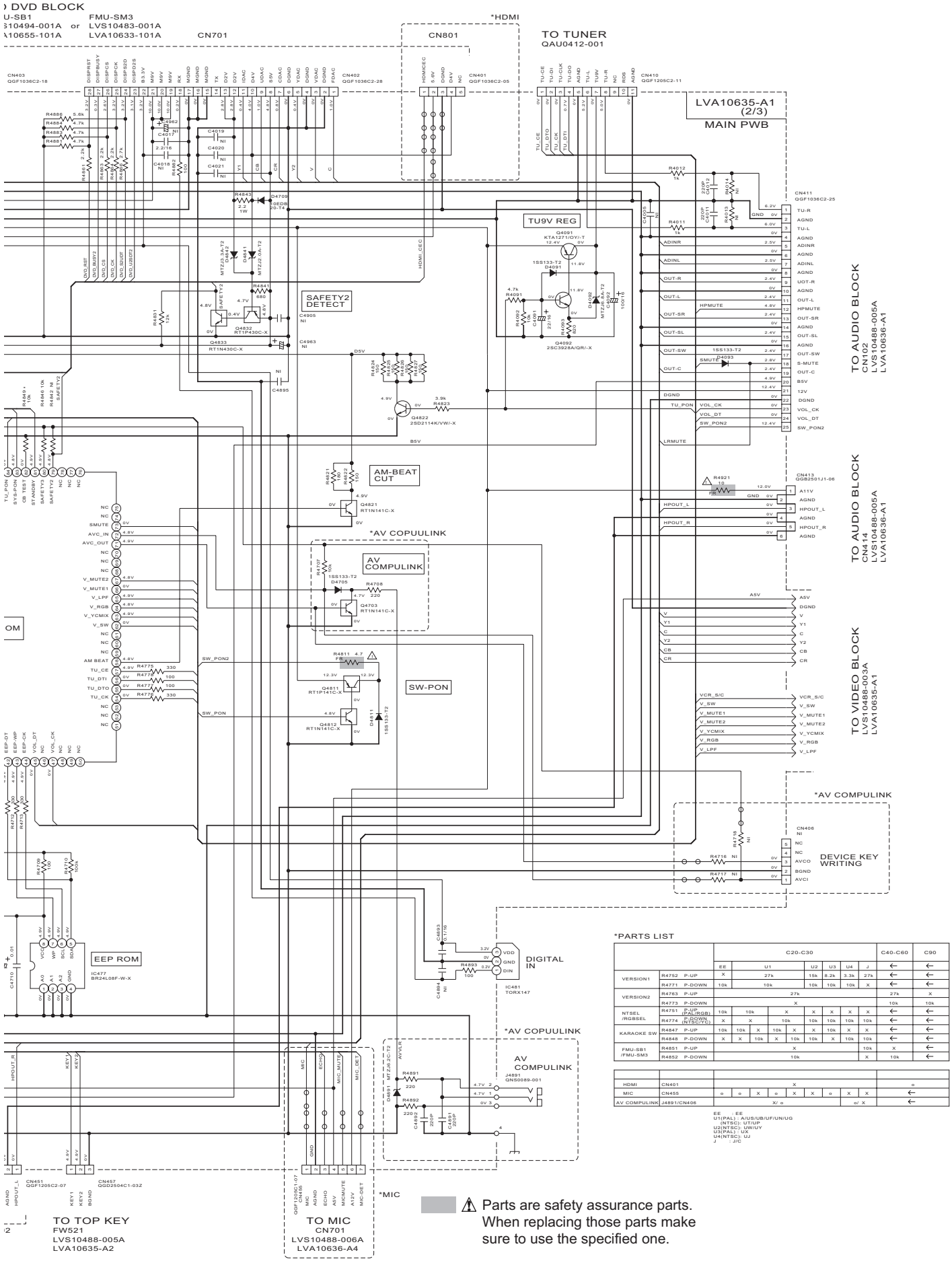
*2 USE C90

■ Micon section



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- A DVD disc in the Tray 1, and STOP mode.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5%METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V , 25V , 16V , 10V or 6.3V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.



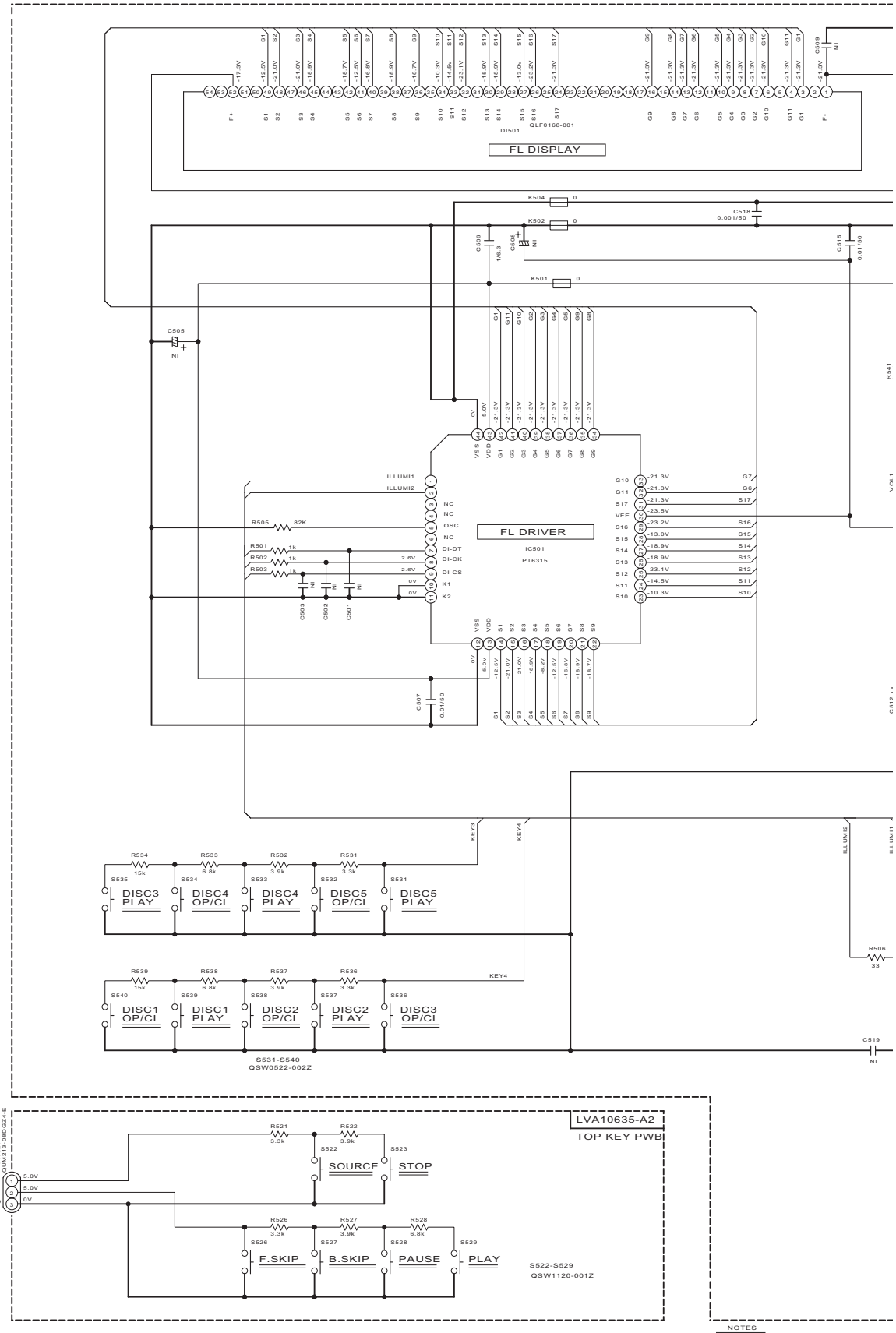
*PARTS LIST

			C20-C30							C40-C60	C90
			EE	U1		U2	U3	U4	J	←	←
VERSION1	R4752	P-UP	x	27k		15k	8.2k	3.3k	27k	←	←
	R4771	P-DOWN	10k	10k		10k	10k	10k	x	←	←
VERSION2	R4763	P-UP	27k							27k	x
	R4773	P-DOWN	x							10k	10k
NTSEL /RGBSEL	R4751	P-UP (PAL/RGB)	10k	10k	x	x	x	x	x	←	←
	R4774	P-DOWN (NTSC/YC)	x	x	10k	10k	10k	10k	10k	←	←
KARAOKE SW	R4847	P-UP	10k	10k	x	10k	x	x	10k	x	←
	R4848	P-DOWN	x	x	10k	x	10k	10k	x	10k	←	←
FMU-SB1 /FMU-SM3	R4851	P-UP	x							10k	x	←
	R4852	P-DOWN	10k							x	10k	←

HDMI	CN401					x					o
MIC	CN455	o	o	x	o	x	x	o	x	x	←
AV COMPULINK	J4891/CN406					x/ o				o/ x	←

EE : EE
U1(PAL) : A/US/UB/UF/UN/UG
(NTSC): UT/UP
U2(NTSC): UW/UY
U3(PAL) : UX
U4(NTSC): UJ
J : J/C

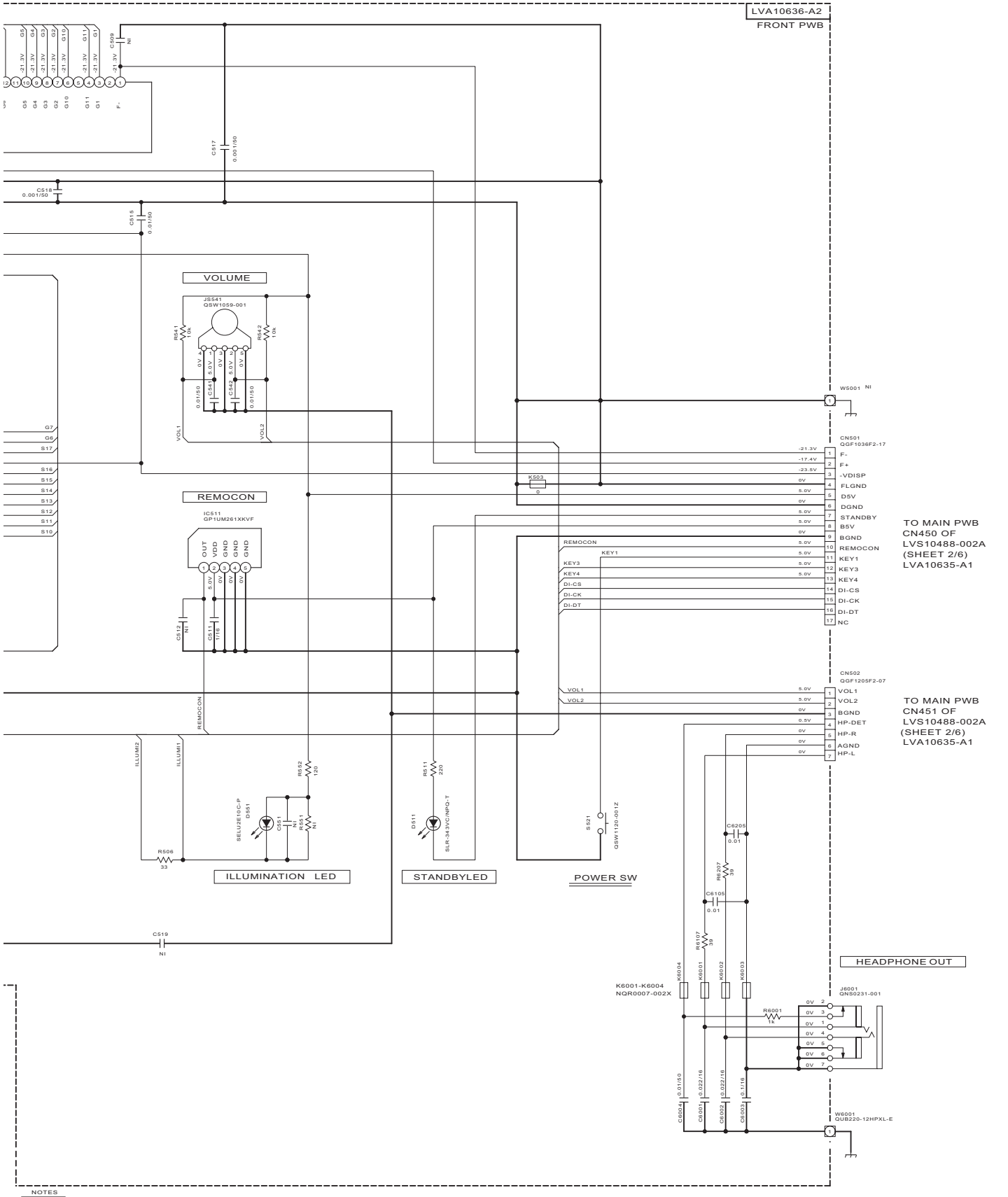
■ Front section



TO MAIN PWB
CN457 OF
LVS10488-002A
(SHEET 2/6)
LVA10635-A1

NOTES

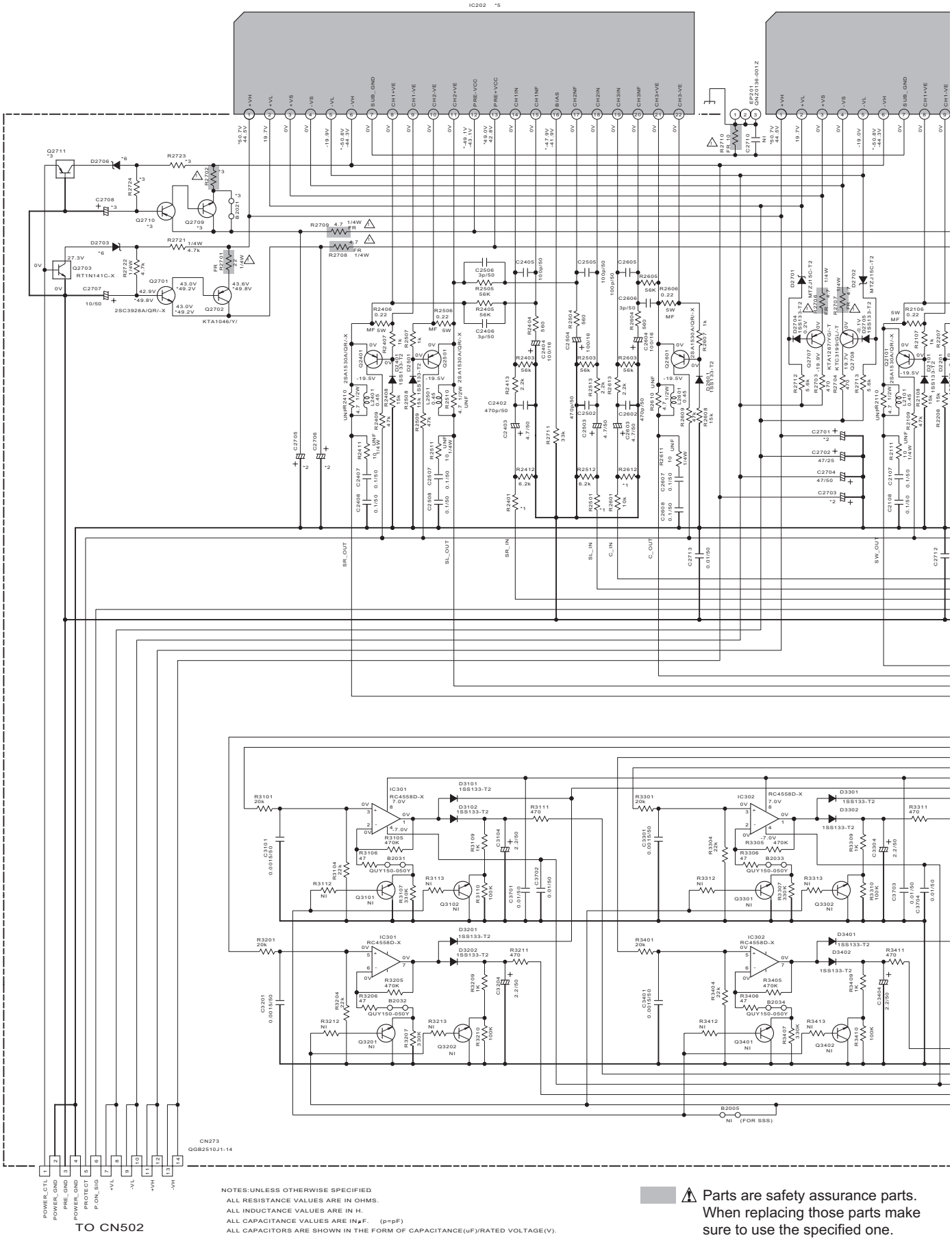
1. VOLTAGES ARE DC-MEASURED WITH A
   CONDITION --- A CD disc in the T
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% MET
   ALL CAPACITORS ARE 50V , 25V , 16V
   ALL RESISTANCE VALUES ARE IN OHM
   ALL CAPACITANCE VALUES ARE IN μ
   ALL E.CAPACITORS ARE SHOWN IN TH
   ALL INDUCTANCE VALUES ARE IN μH(
3. NI STANDS FOR NOT INSERTED PARTS.



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- A CD disc in the Tray 1, and PLAY mode.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.

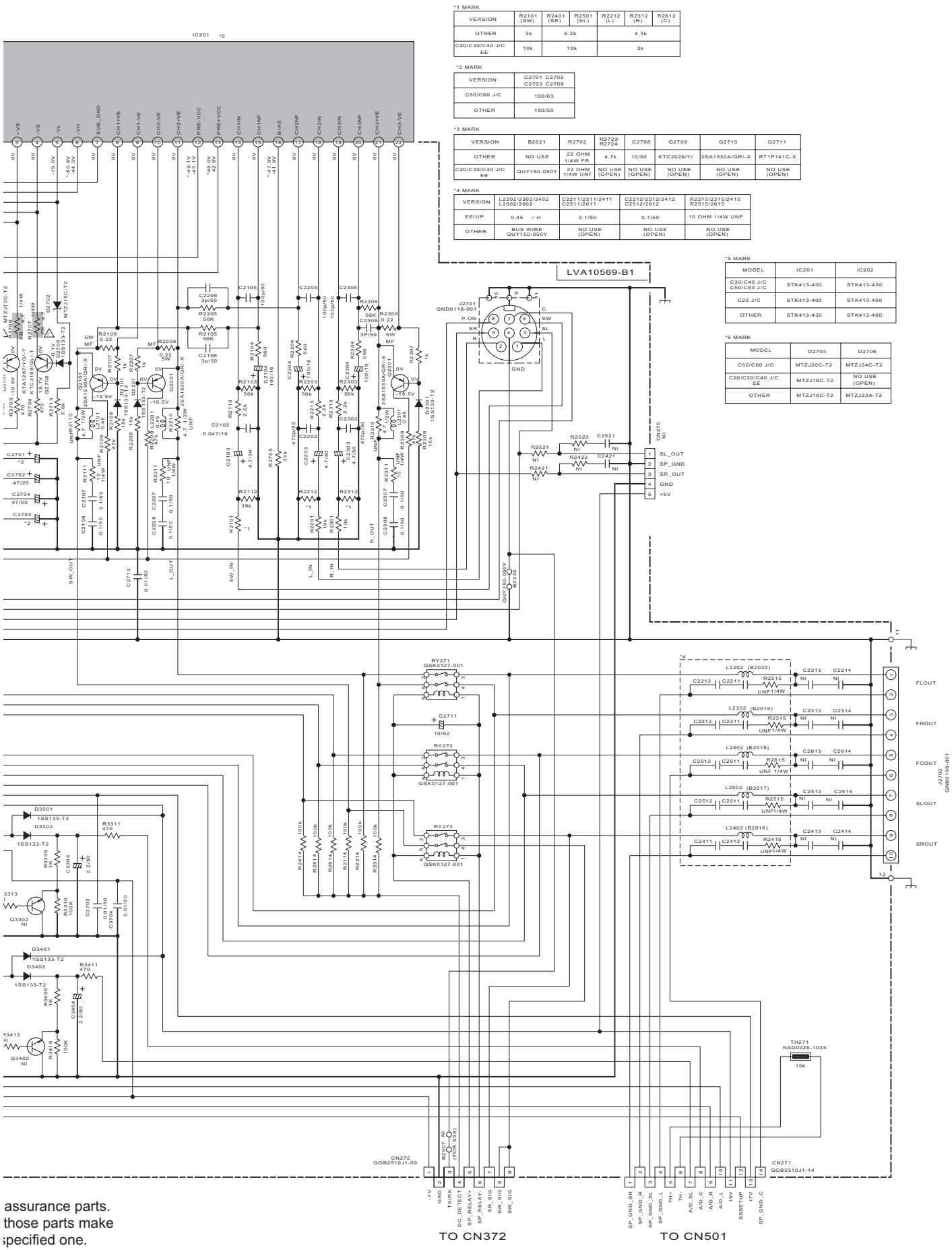
■ Mother section



NOTES:UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF. (p=pF)
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V).

VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL..(*MARK:FOR C50/C60 J/C)

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

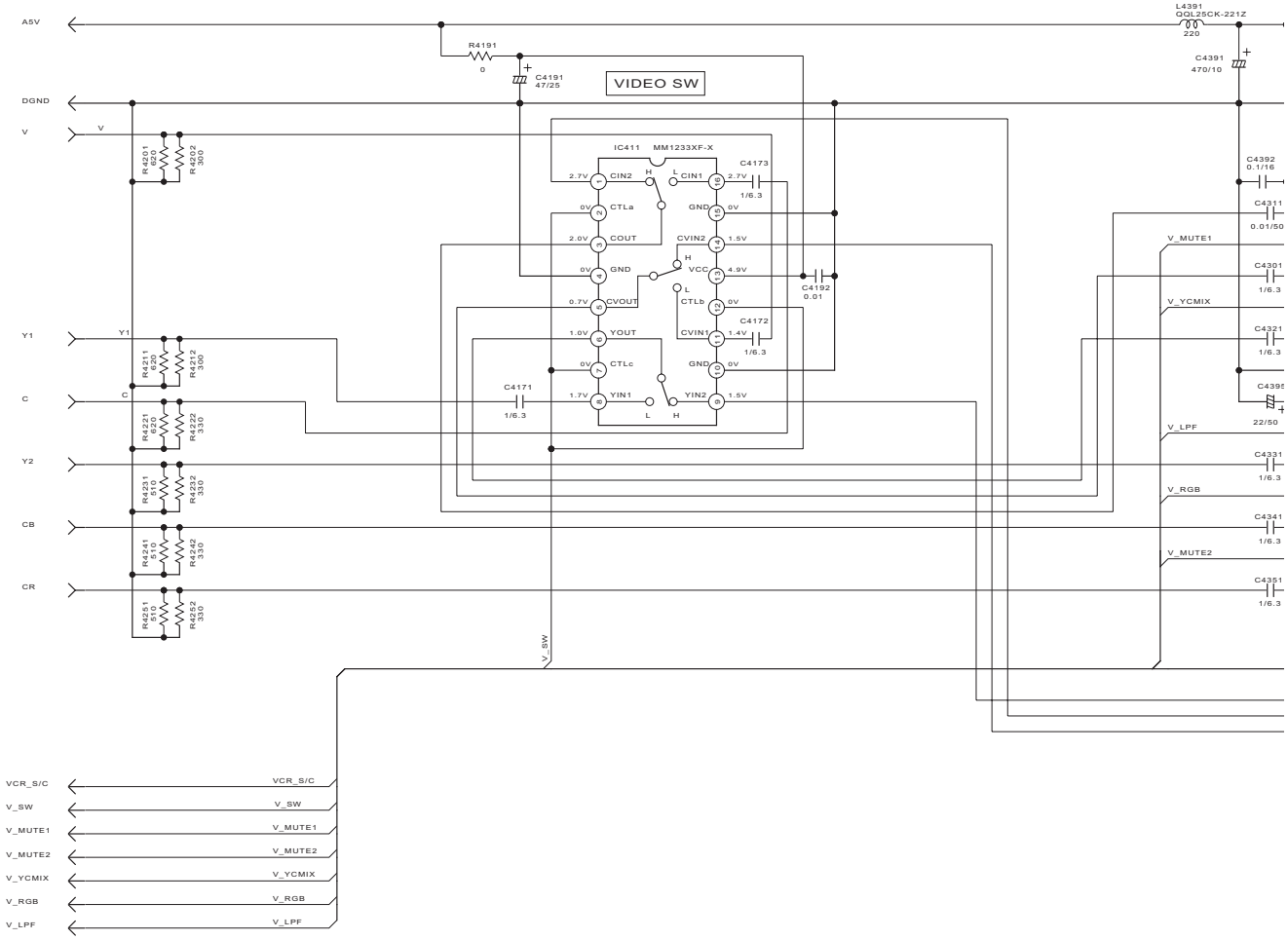

*1 MARK
VERSION | R2101 (SW) | R2401 (SR) | R2501 (SL) | R2212 (L) | R2312 (R) | R2612 (C)
OTHER | 3k | 6.2k | 4.3k
C20/C30/C40 J/C EE | 10k | 10k | 3k
*2 MARK
VERSION | C2701 C2705 C2703 C2706
C50/C60 J/C | 100/63
OTHER | 100/50
*3 MARK
VERSION | B2021 | R2702 | R2723 R2724 | C2708 | Q2709 | Q2710 | Q2711
OTHER | NO USE | 22 OHM 1/4W FR | 4.7k | 10/50 | KTC2026/Y/ | 2SA1530A/QR/-X | RT1P141C-X
C20/C30/C40 J/C EE | QUY150-050Y | 22 OHM 1/4W UNF | NO USE (OPEN) | NO USE (OPEN) | NO USE (OPEN) | NO USE (OPEN) | NO USE (OPEN)
*4 MARK
VERSION | L2202/2302/2402 L2502/2602 | C2211/2311/2411 C2511/2611 | C2212/2312/2412 C2512/2612 | R2215/2315/2415 R2515/2615
EE/UP | 0.45 μH | 0.1/50 | 0.1/50 | 10 OHM 1/4W UNF
OTHER | BUS WIRE QUY150-050Y | NO USE (OPEN) | NO USE (OPEN) | NO USE (OPEN)
*5 MARK
MODEL | IC201 | IC202
C30/C40 J/C C50/C60 J/C | STK413-430 | STK413-430
C20 J/C | STK413-400 | STK413-400
OTHER | STK413-430 | STK413-400
*6 MARK
MODEL | D2703 | D2706
C50/C60 J/C | MTZJ20C-T2 | MTZJ24C-T2
C20/C30/C40 J/C EE | MTZJ16C-T2 | NO USE (OPEN)
OTHER | MTZJ16C-T2 | MTZJ22A-T2
IC201 *5
LVA10569-B1
TO CN372
TO CN501

assurance parts.
those parts make
specified one.

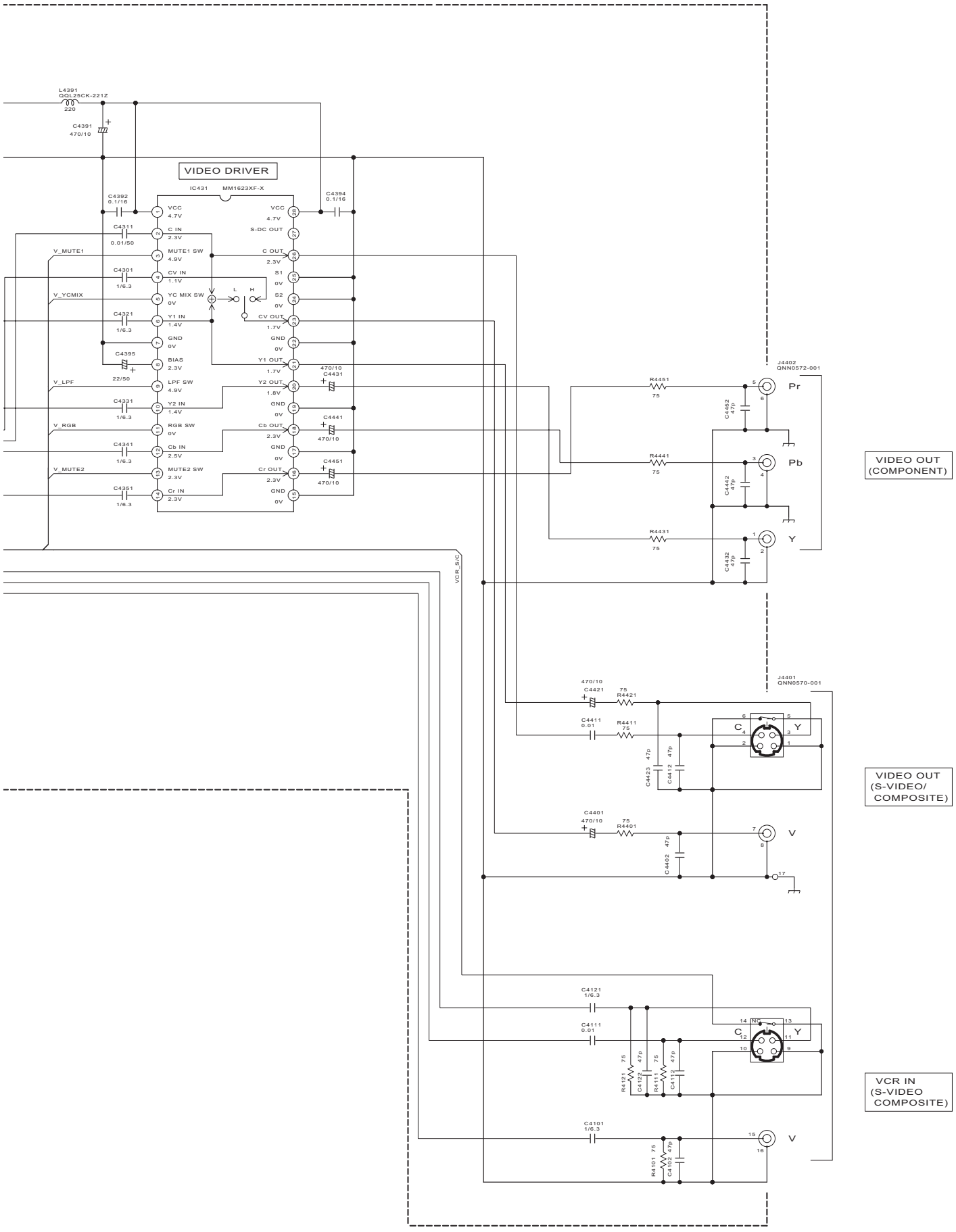
■ VIdeo section

LVA10635-A1 (3/3)

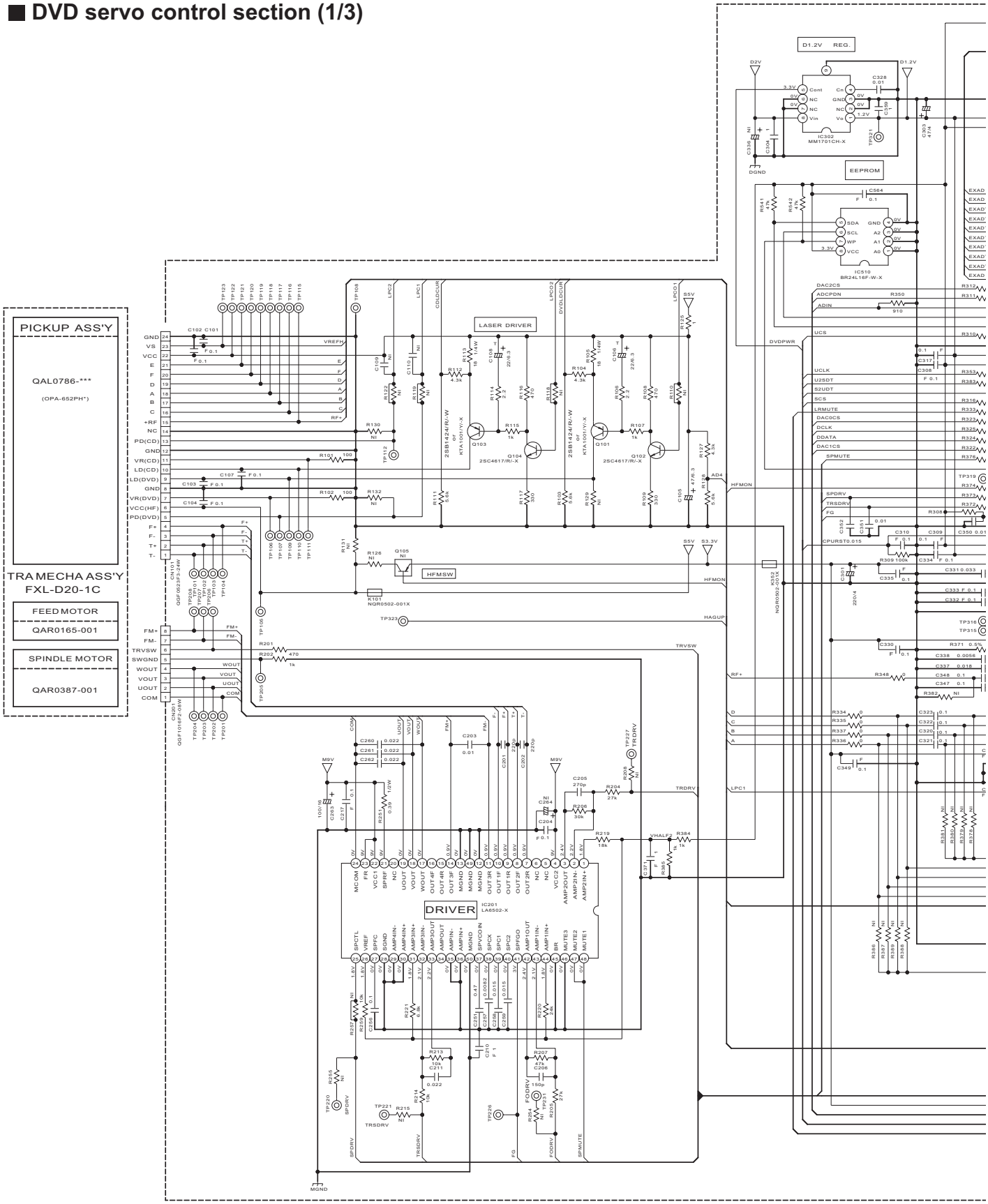
MAIN PWB

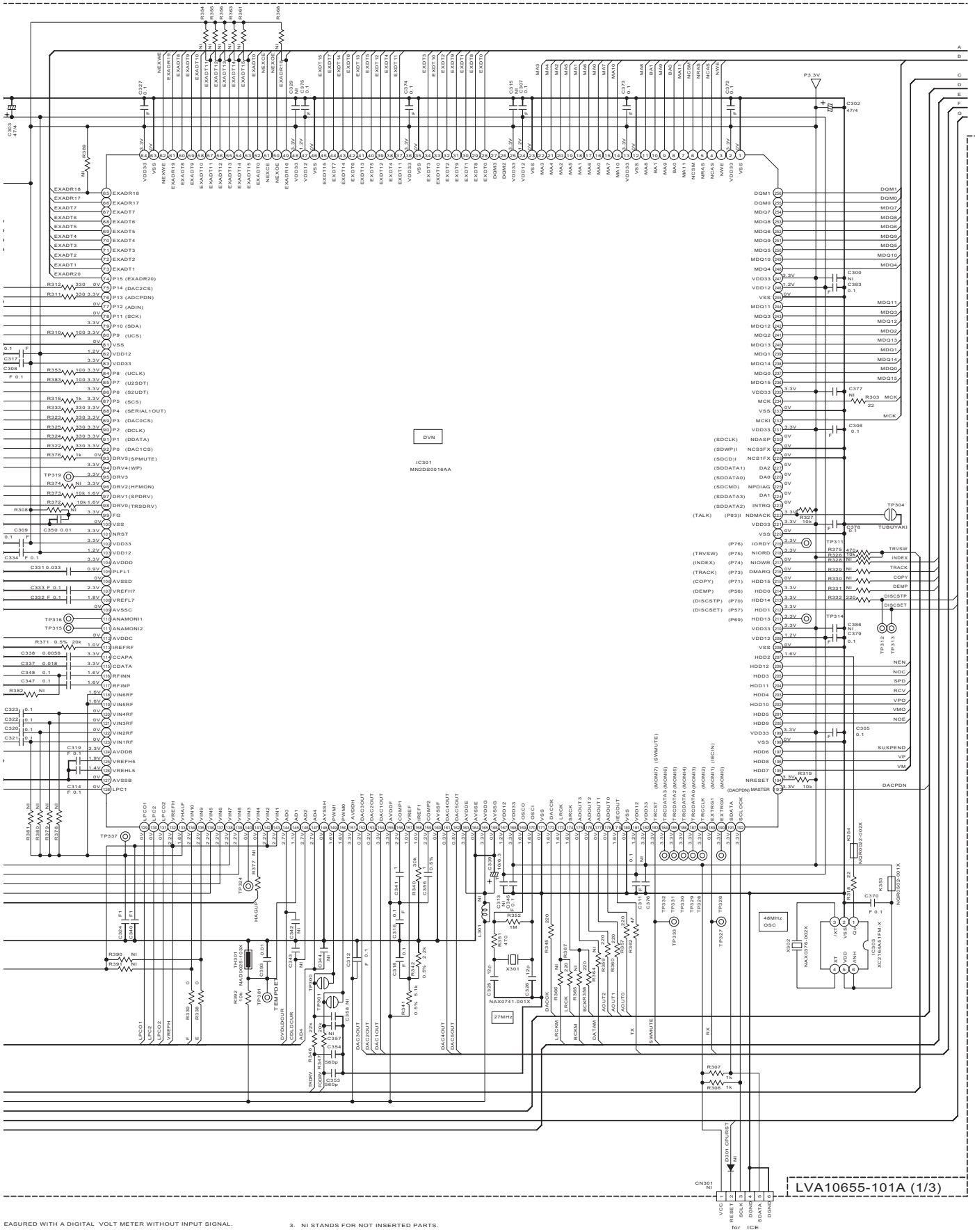


TO MICOM BLOCK
LVS10488-002A
LVA10635-A1


VIDEO DRIVER
IC431 MM1623XF-X
L4391 QGL25CK-221Z
220
C4391 470/10
C4392 0.1/16
C4394 0.1/16
VCC 4.7V
C IN 2.3V
MUTE1 SW 4.9V
CV IN 1.1V
YC MIX SW 0V
Y1 IN 1.4V
GND 0V
BIAS 2.3V
LPF SW 4.9V
Y2 IN 1.4V
RGB SW 0V
Cb IN 2.5V
MUTE2 SW 2.3V
Cr IN 2.3V
S-DC OUT
C OUT 2.3V
S1 0V
S2 0V
CV OUT 1.7V
Y1 OUT 1.7V
Y2 OUT 1.8V
Cb OUT 2.3V
Cr OUT 2.3V
V_MUTE1
V_YCMIX
V_LPF
V_RGB
V_MUTE2
C4311 0.01/50
C4301 1/6.3
C4321 1/6.3
C4395 22/50
C4331 1/6.3
C4341 1/6.3
C4351 1/6.3
C4431 470/10
C4441 470/10
C4451 470/10
L H
VCR_S/C
J4402 QNN0572-001
R4451 75
R4441 75
R4431 75
C4452 47p
C4442 47p
C4432 47p
Pr
Pb
Y
VIDEO OUT (COMPONENT)
J4401 QNN0570-001
C4421 470/10
R4421 75
C4411 0.01
R4411 75
C4423 47p
C4412 47p
C4401 470/10
R4401 75
C4402 47p
C
Y
V
VIDEO OUT (S-VIDEO/ COMPOSITE)
C4121 1/6.3
C4111 0.01
R4121 75
C4122 47p
R4111 75
C4112 47p
C4101 1/6.3
R4101 75
C4102 47p
NC
VCR IN (S-VIDEO COMPOSITE)

■ DVD servo control section (1/3)





EASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
VD disc in the Tray 1, and STOP mode.

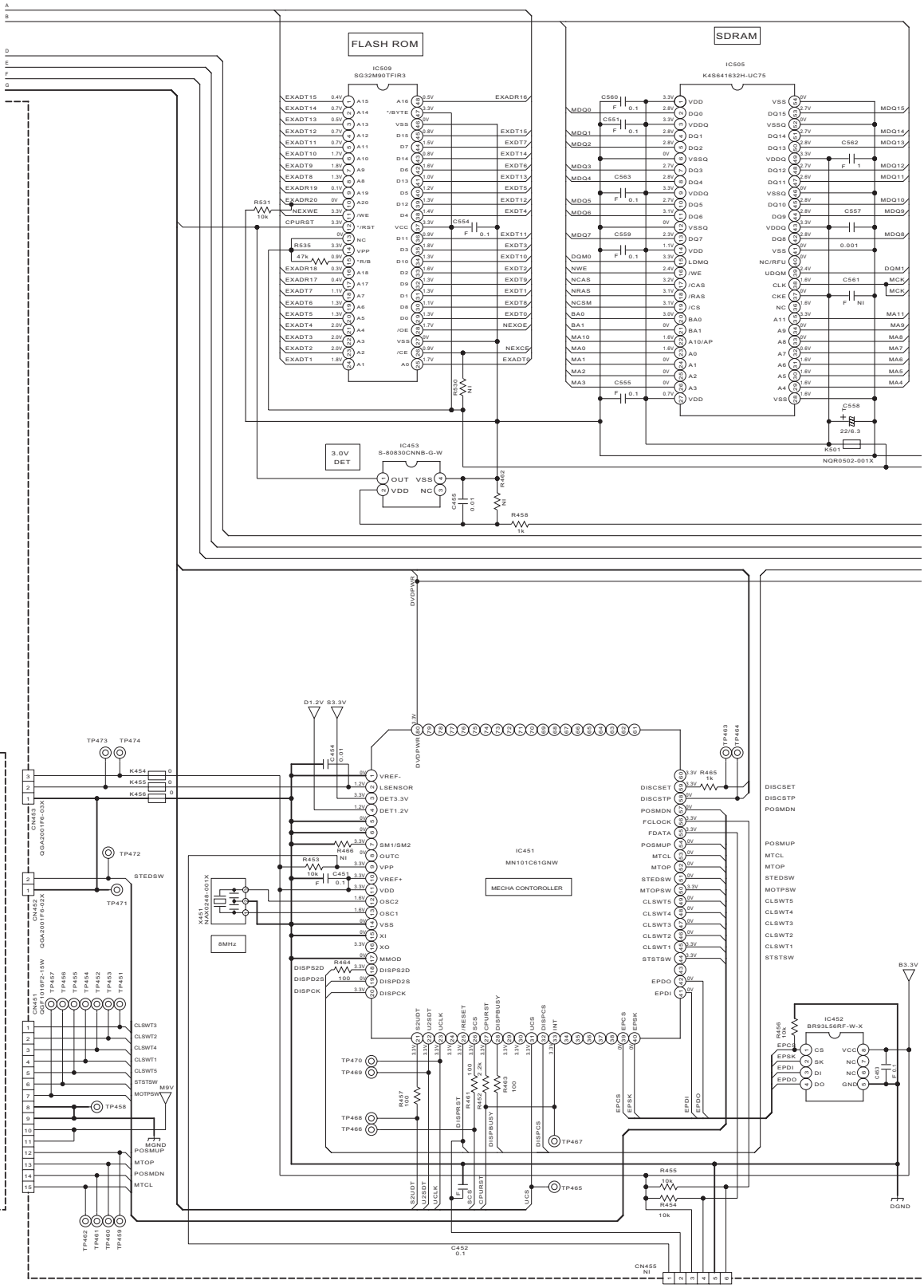
SPECIFIED.
E 1/16W±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
RE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR
ALUES ARE IN OHM(Ω).
/ALUES ARE IN μF(p=pF).
ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
ALUES ARE IN μH(m=mH).

3. NI STANDS FOR NOT INSERTED PARTS.

■ DVD servo control section (2/3)

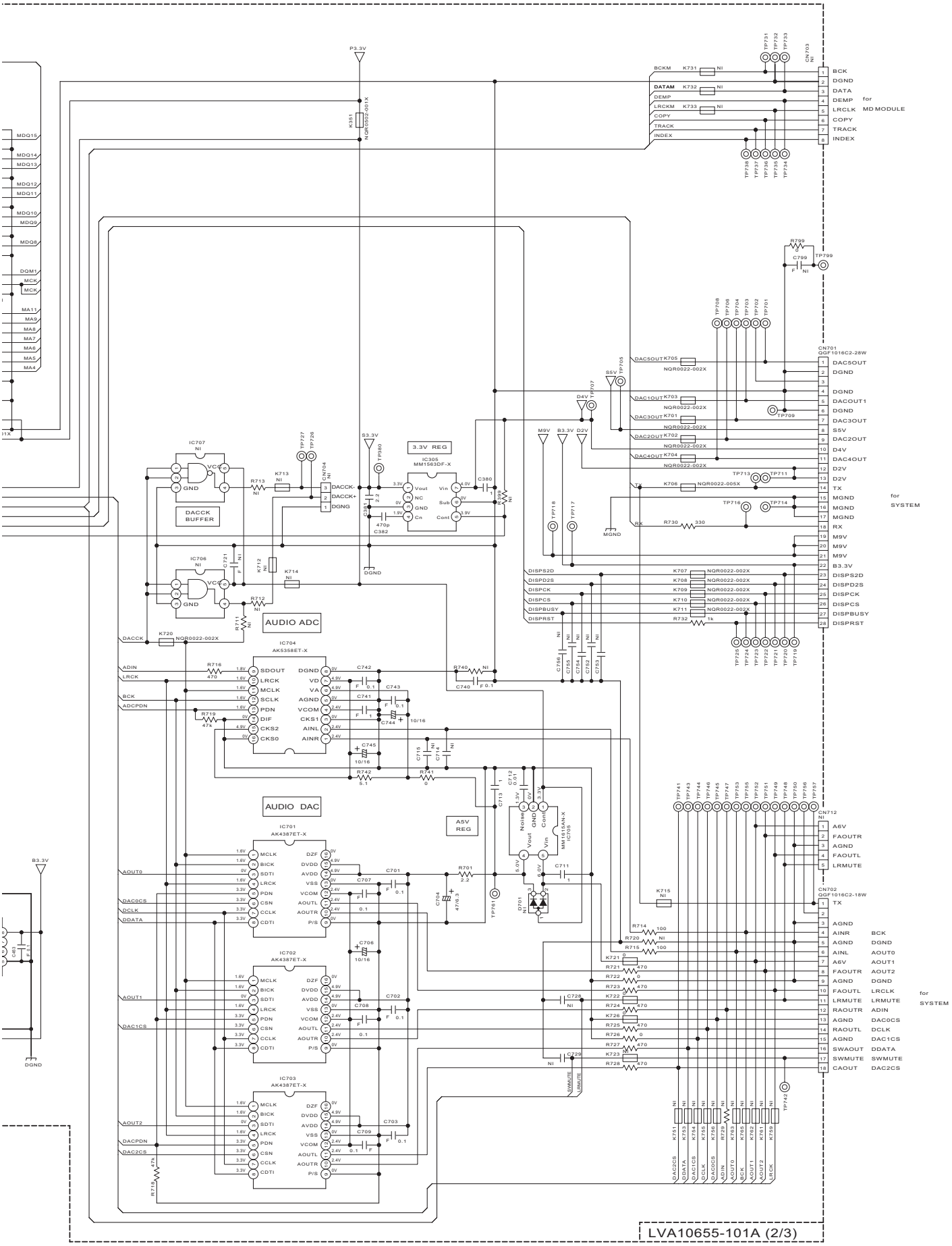
LOADER ASS'Y
CH6-BASE-1

See
LVS20135-002A

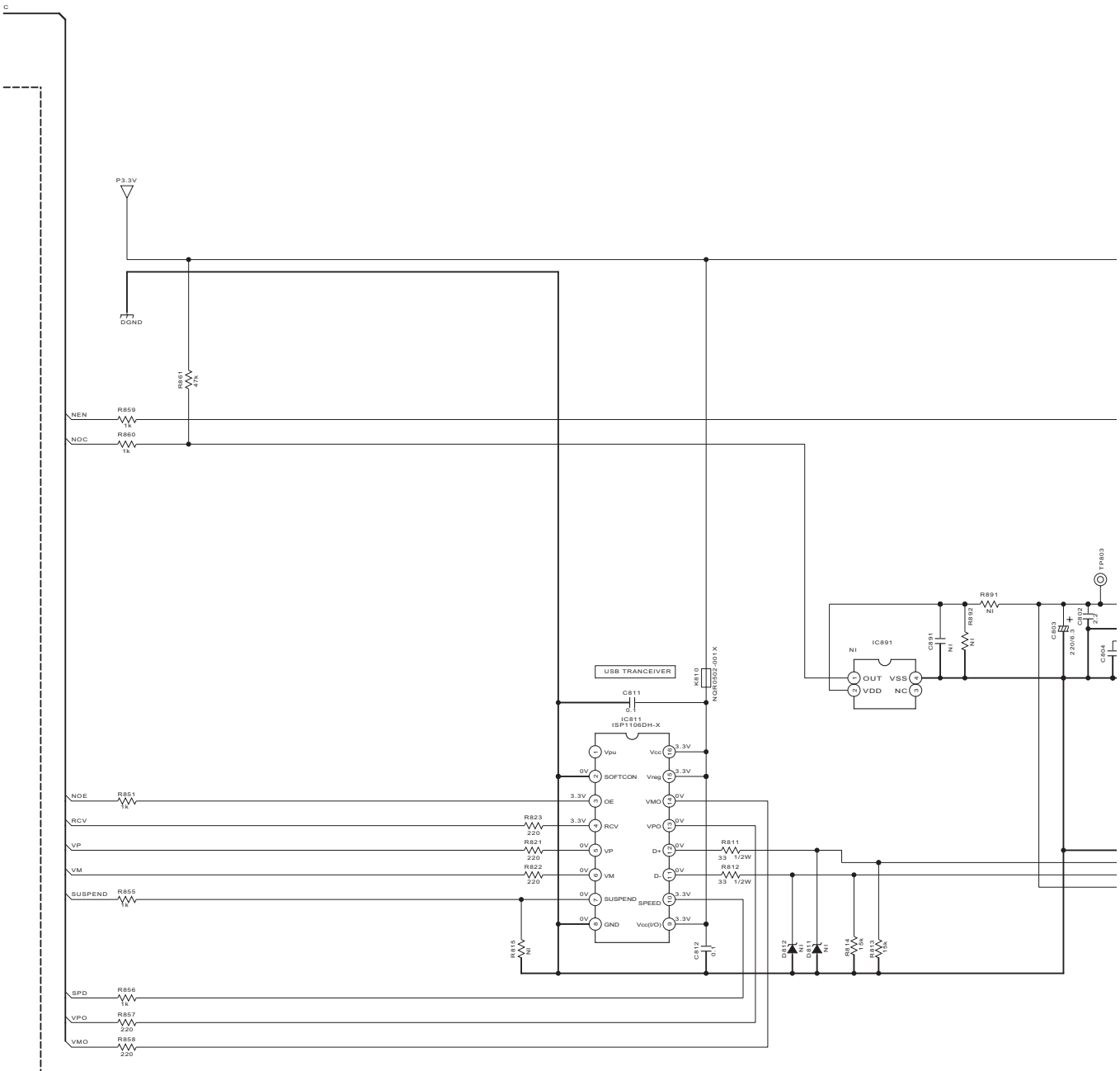


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- A DVD disc in the Tray 1, and STOP mode.
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
3. NI STANDS FOR NOT INSERTED PARTS.


P3.3V
K351
NQR0502-001X
BCKM K731 NI
DATAM K732 NI
DEMP
LRCKM K733 NI
COPY
TRACK
INDEX
CN703 NI
BCK
DGND
DATA
DEMP for MD MODULE
LRCLK
COPY
TRACK
INDEX
MDQ15
MDQ14
MDQ13
MDQ12
MDQ11
MDQ10
MDQ9
MDQ8
DQM1
MCK
MCK
MA11
MA9
MA8
MA7
MA6
MA5
MA4
IC707 NI
VCC
GND
R713 NI
K713 NI
CN704 NI
DACCK
DACCK+
DGNG
DACCK BUFFER
S3.3V
3.3V REG
IC305 MM1563DF-X
Vout
NC
GND
Cn
Vin
Sub
Cont
C380
R709 NI
C381
C382
470p
IC706 NI
C721 NI
K712 NI
K714 NI
R712 NI
R711 NI
AUDIO ADC
K720 NQR0022-002X
IC704 AK5358ET-X
SDOUT
LRCK
MCLK
SCLK
PDN
DIF
CKS2
CKS0
DGND
VD
VA
AGND
VCOM
CKS1
AINL
AINR
ADIN
LRCK
BCK
ADCPDN
R716 470
R719 47k
C742
C743
C741
C744
C745
C715 NI
C714 NI
R742 5.1
R741 0
R740 NI
C740
AUDIO DAC
A5V REG
IC701 AK4387ET-X
IC702 AK4387ET-X
IC703 AK4387ET-X
MCLK
BICK
SDTI
LRCK
PDN
CSN
CCLK
CDTI
DZF
DVDD
AVDD
VSS
VCOM
AOUTL
AOUTR
P/S
AOUT0
AOUT1
AOUT2
DAC0CS
DAC1CS
DAC2CS
DCLK
DDATA
DACPDN
C707
C708
C709
C701
C702
C703
C706
10/16
R718 47k
C712 0.01
C713 1
Noise
Vout
GND
Vin
Com
MM1615AN-X
IC705
5.0V
3.3V
C711 1
R701 2.2
C704 470
TP761
D701 IN
K715 NI
R714 100
R720 NI
R715 100
K721 0
R721 470
R722 0
R723 470
K722
R724 470
K726
R725 470
R726 0
R727 470
K723
R728 470
C728 NI
C729 NI
SWMUTE
LRMUTE
K761 NI
K762 NI
K763 NI
K764 NI
K765 NI
R735 NI
K766 NI
K767 NI
K768 NI
K769 NI
DAC2CS
DDATA
DAC1CS
DCLK
DAC0CS
SDIN
AOUT0
BCK
AOUT1
AOUT2
RCK
TP742
CN712 NI
A6V
FAOUTR
AGND
FAOUTL
LRMUTE
CN702 QGF1016C2-18W
TX
AGND
AINR BCK
AGND DGND
AINL AOUT0
A6V AOUT1
FAOUTR AOUT2
AGND DGND
FAOUTL LRCLK for SYSTEM
LRMUTE LRMUTE
RAOUTR ADIN
AGND DAC0CS
RAOUTL DCLK
AGND DAC1CS
SWAOUT DDATA
SWMUTE SWMUTE
CAOUT DAC2CS
R799
C799 NI
TP799
CN701 QGF1016C2-28W
DAC5OUT K705 NQR0022-002X
DAC1OUT K703 NQR0022-002X
DAC3OUT K701 NQR0022-002X
DAC2OUT K702 NQR0022-002X
DAC4OUT K704 NQR0022-002X
DAC5OUT
DGND
DGND
DACOUT1
DGND
DAC3OUT
S5V
DAC2OUT
D4V
DAC4OUT
D2V
D2V
TX
MGND for SYSTEM
MGND
MGND
RX
M9V
M9V
M9V
B3.3V
DISPS2D
DISPD2S
DISPCK
DISPCS
DISPBUSY
DISPRST
K706 NQR0022-005X
R730 330
K707 NQR0022-002X
K708 NQR0022-002X
K709 NQR0022-002X
K710 NQR0022-002X
K711 NQR0022-002X
R732 1k
C756 NI
C755 NI
C754 NI
C752 NI
C753 NI
TP731 TP732 TP733
TP738 TP737 TP736 TP735 TP734
TP708 TP706 TP704 TP703 TP702 TP701
TP705 TP707 TP709
TP713 TP711 TP716 TP714
TP718 TP717
TP725 TP724 TP723 TP722 TP721 TP720 TP719
TP741 TP743 TP744 TP746 TP745 TP747 TP753 TP755 TP752 TP751 TP749 TP748 TP750 TP756 TP757
TP727 TP726 TP380
LVA10655-101A (2/3)

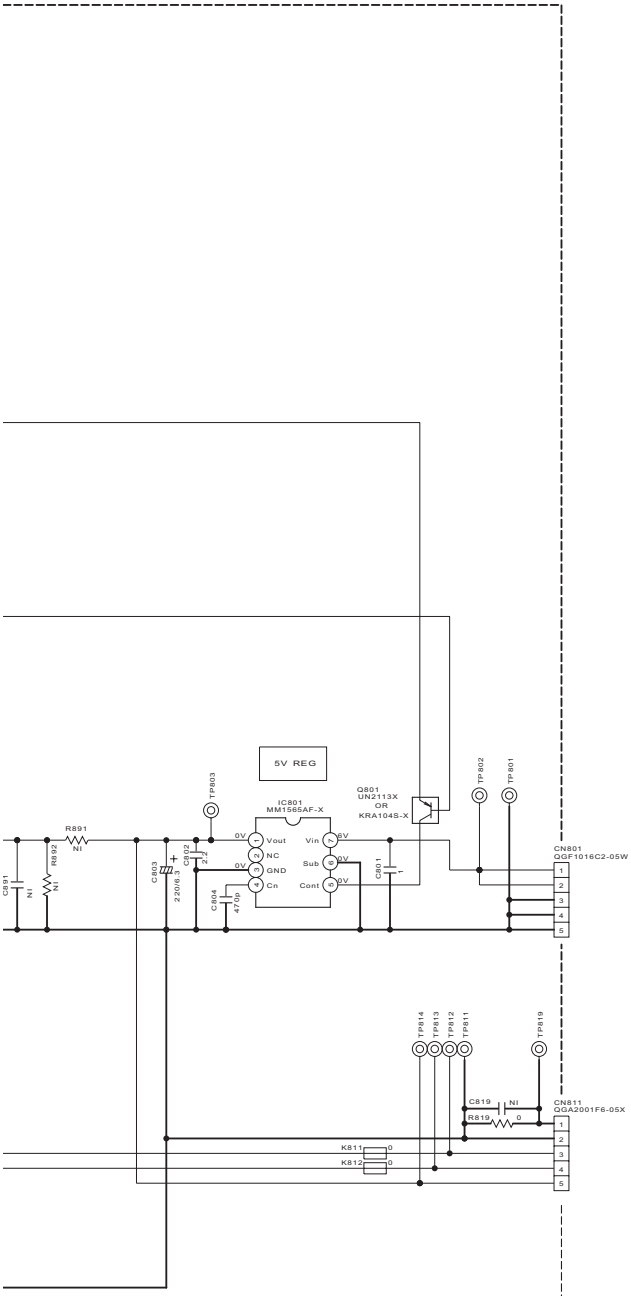
■ DVD servo control section (3/3)



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION --- A DVD disc in the Tray 1, and STOP mode.

2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W±5% METAL GLAZE RESISTOR. OR 0.5% METAL GLAZE RESIS
   ALL CAPACITORS ARE 50V, 25V, 16V, 10V or 6.3V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(p=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V)
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).



LVA10655-101A (3/3)

LT METER WITHOUT INPUT SIGNAL.
STOP mode.

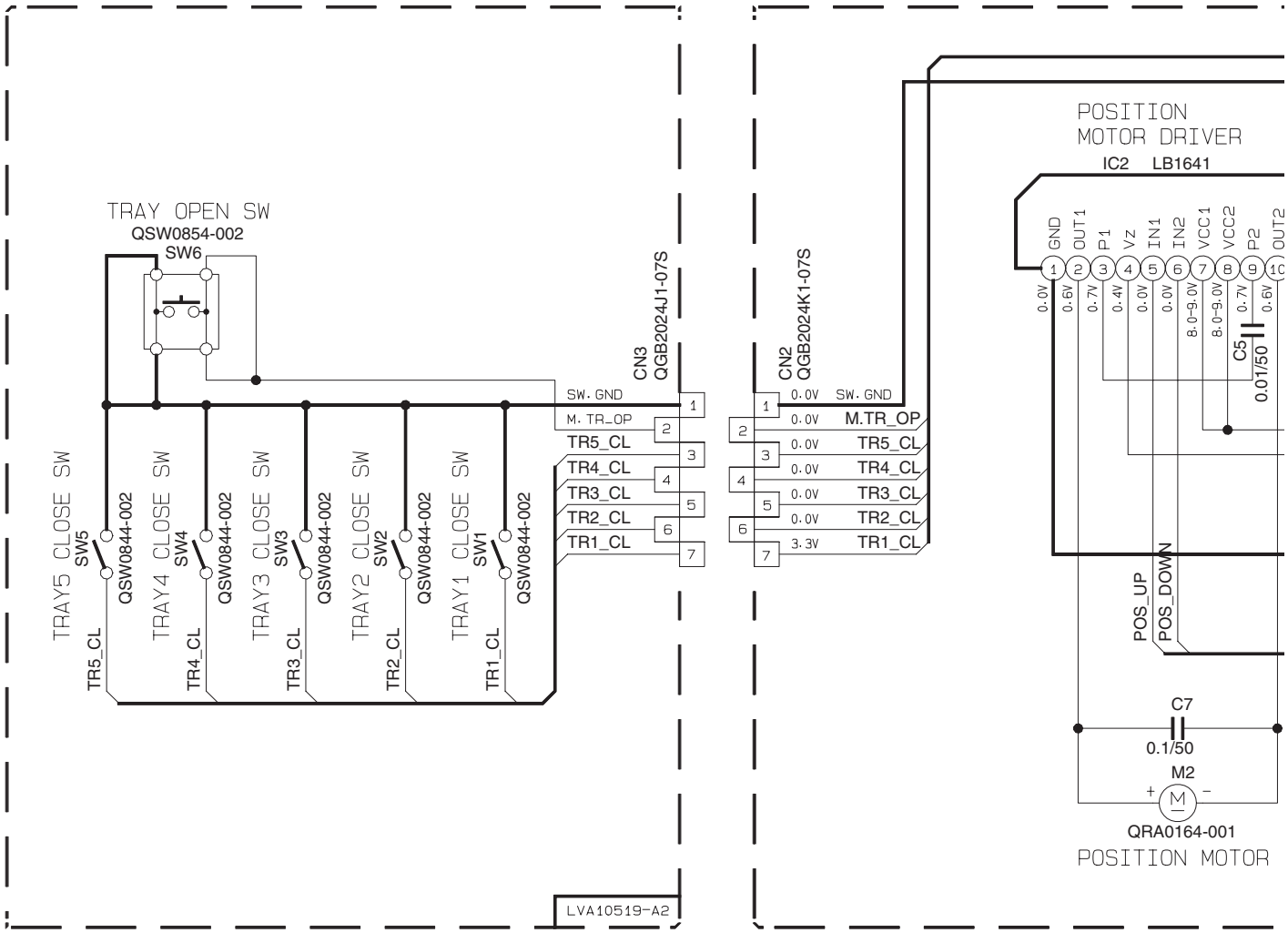
ESISTOR. OR 0.5% METAL GLAZE RESISTOR.
iV CERAMIC CAPACITOR.

CAPACITANCE(μF)/RATED VOLTAGE (V).

3. NI STANDS FOR NOT INSERTED PARTS.

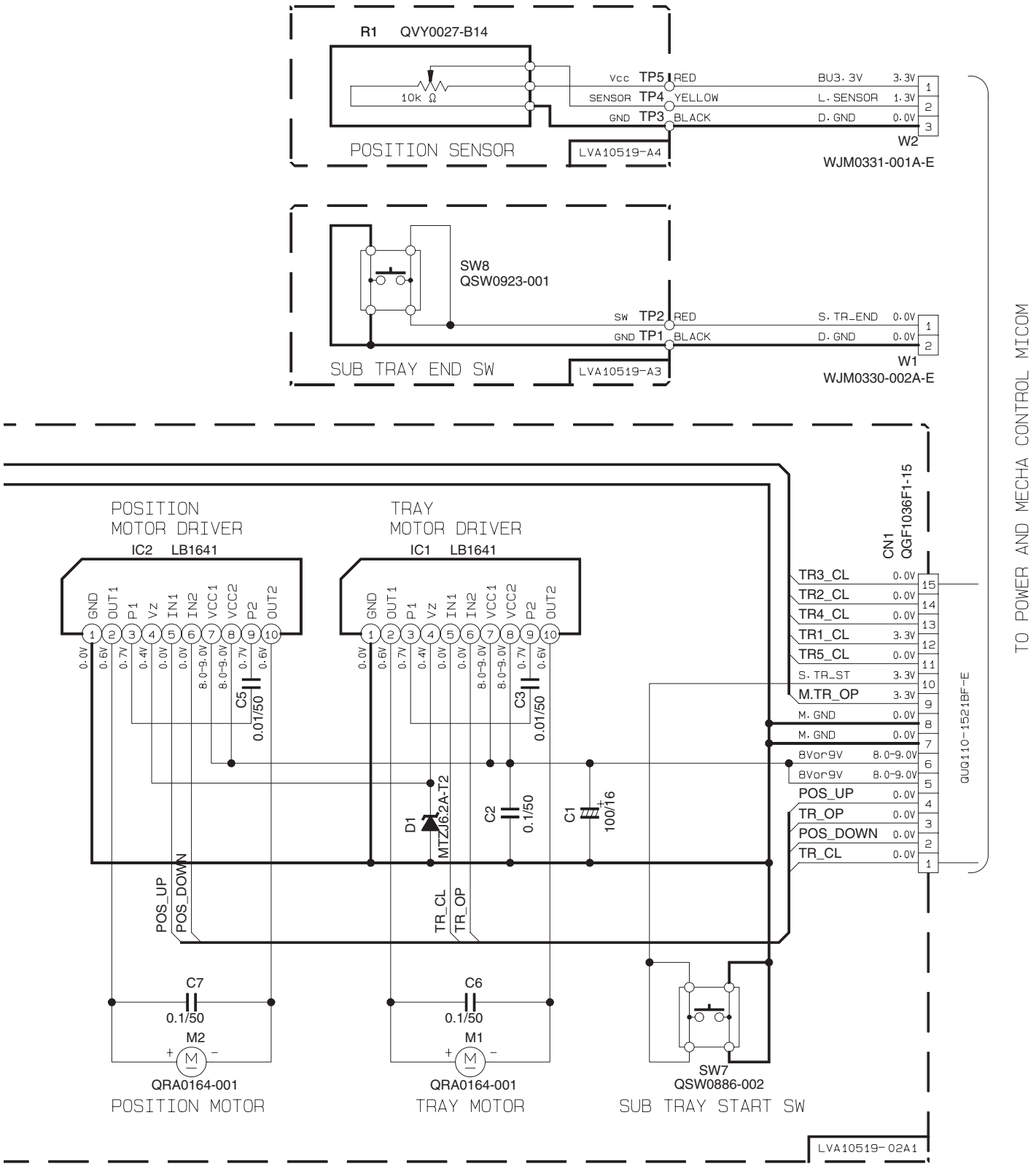
4.DIGITAL TRANSISTOR

■ Loader section



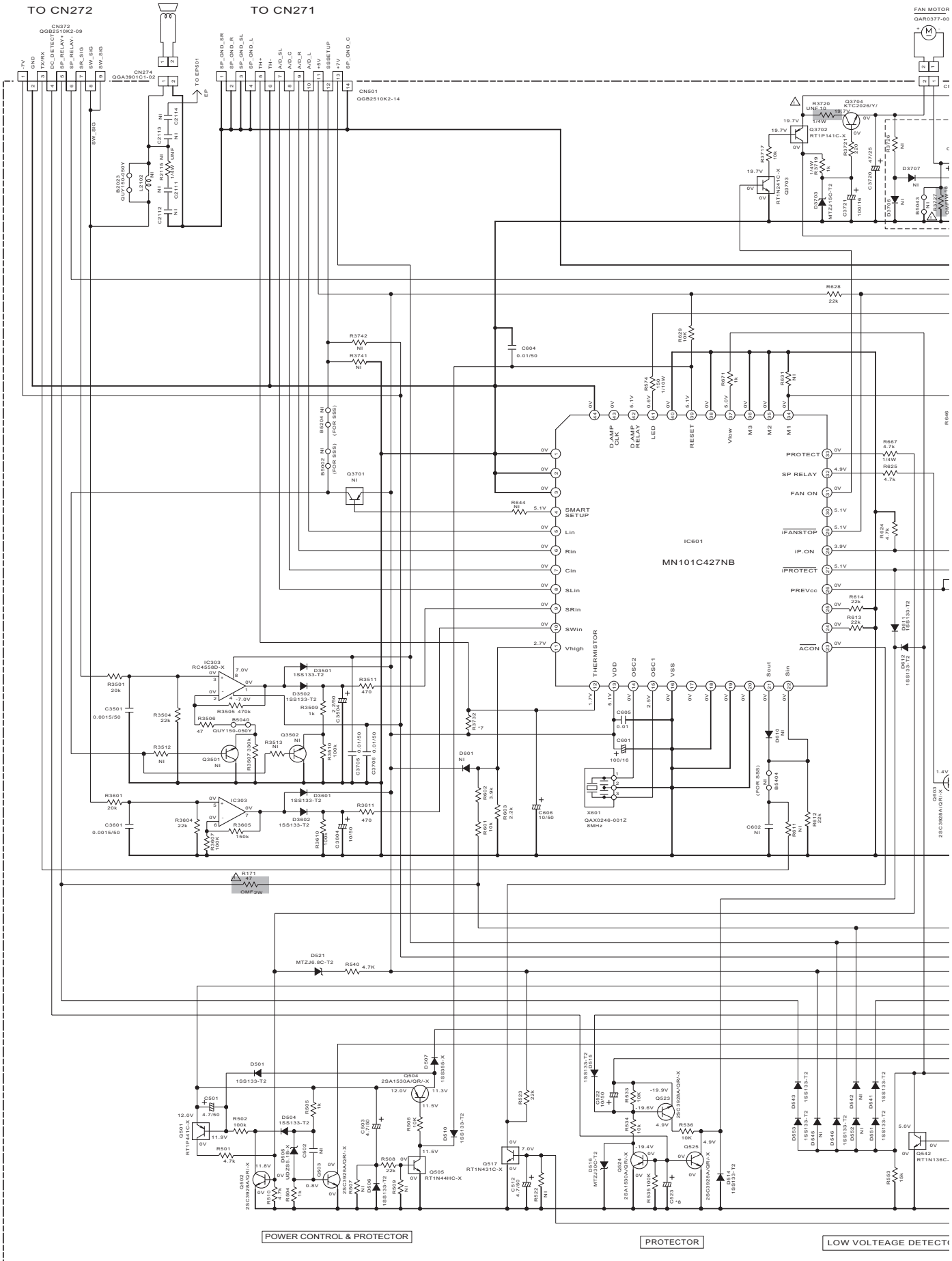
NOTES

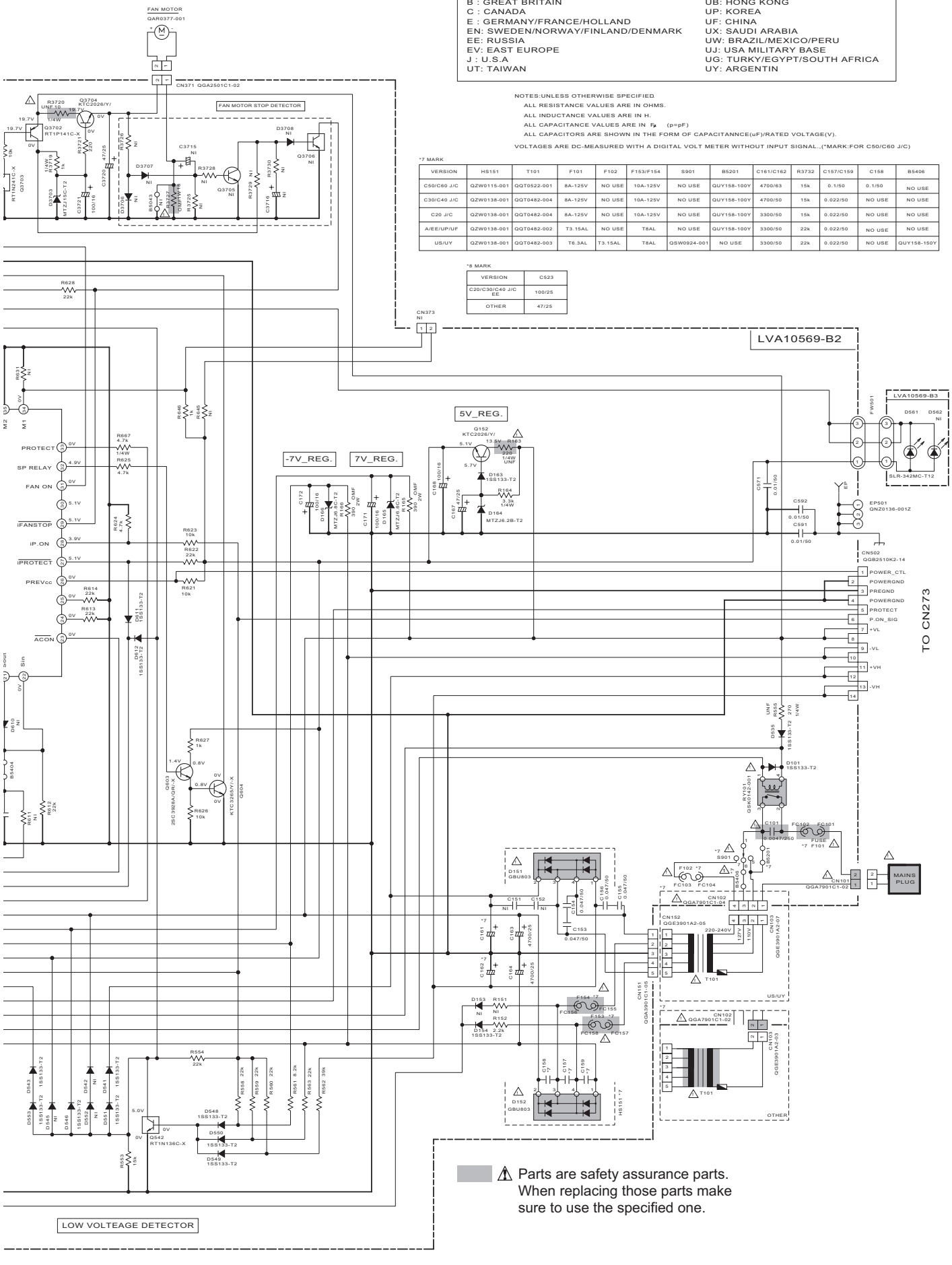
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
   CONDITION:DISC1 STOP
2. UNLESS OTHERWISE SPECIFIED.
   ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE(V).
3. NI STANDS FOR NOT INSERTED PARTS.


R1 QVY0027-B14
10k Ω
Vcc TP5 RED
SENSOR TP4 YELLOW
GND TP3 BLACK
BU3.3V 3.3V
L.SENSOR 1.3V
D.GND 0.0V
POSITION SENSOR
LVA10519-A4
W2
WJM0331-001A-E
SW8
QSW0923-001
SW TP2 RED
GND TP1 BLACK
S.TR-END 0.0V
D.GND 0.0V
SUB TRAY END SW
LVA10519-A3
W1
WJM0330-002A-E
TO POWER AND MECHA CONTROL MICOM
POSITION
MOTOR DRIVER
IC2 LB1641
TRAY
MOTOR DRIVER
IC1 LB1641
GND OUT1 P1 Vz IN1 IN2 VCC1 VCC2 P2 OUT2
C5 0.01/50
C3 0.01/50
D1 MTZJ6.2A-T2
C2 0.1/50
C1 100/16
CN1 QGF1036F1-15
TR3_CL 0.0V
TR2_CL 0.0V
TR4_CL 0.0V
TR1_CL 3.3V
TR5_CL 0.0V
S.TR_ST 3.3V
M.TR_OP 3.3V
M.GND 0.0V
M.GND 0.0V
8Vor9V 8.0-9.0V
8Vor9V 8.0-9.0V
POS_UP 0.0V
TR_OP 0.0V
POS_DOWN 0.0V
TR_CL 0.0V
QUQ110-1521BF-E
POS_UP
POS_DOWN
TR_CL
TR_OP
C7 0.1/50
C6 0.1/50
M2
M1
QRA0164-001
QRA0164-001
POSITION MOTOR
TRAY MOTOR
SW7
QSW0886-002
SUB TRAY START SW
LVA10519-02A1

(V).

■ Subwoofer primery section



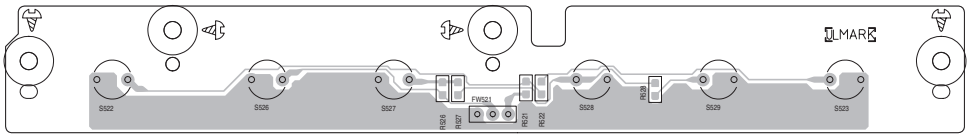

VERSION
A : AUSTRALIA
B : GREAT BRITAIN
C : CANADA
E : GERMANY/FRANCE/HOLLAND
EN: SWEDEN/NORWAY/FINLAND/DENMARK
EE: RUSSIA
EV: EAST EUROPE
J : U.S.A
UT: TAIWAN
US: SINGAPOLE
UB: HONG KONG
UP: KOREA
UF: CHINA
UX: SAUDI ARABIA
UW: BRAZIL/MEXICO/PERU
UJ: USA MILITARY BASE
UG: TURKY/EGYPT/SOUTH AFRICA
UY: ARGENTIN
NOTES:UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN F (p=pF)
ALL CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANNCE(uF)/RATED VOLTAGE(V).
VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.,(*MARK:FOR C50/C60 J/C)
*7 MARK
VERSION | HS151 | T101 | F101 | F102 | F1S3/F1S4 | S901 | B5201 | C161/C162 | R3732 | C157/C159 | C158 | B5406
C50/C60 J/C | QZW0115-001 | QQT0522-001 | 8A-125V | NO USE | 10A-125V | NO USE | QUY158-100Y | 4700/63 | 15k | 0.1/50 | 0.1/50 | NO USE
C30/C40 J/C | QZW0138-001 | QQT0482-004 | 8A-125V | NO USE | 10A-125V | NO USE | QUY158-100Y | 4700/50 | 15k | 0.022/50 | NO USE | NO USE
C20 J/C | QZW0138-001 | QQT0482-004 | 8A-125V | NO USE | 10A-125V | NO USE | QUY158-100Y | 3300/50 | 15k | 0.022/50 | NO USE | NO USE
A/EE/UP/UF | QZW0138-001 | QQT0482-002 | T3.15AL | NO USE | T8AL | NO USE | QUY158-100Y | 3300/50 | 22k | 0.022/50 | NO USE | NO USE
US/UY | QZW0138-001 | QQT0482-003 | T6.3AL | T3.15AL | T8AL | QSW0924-001 | NO USE | 3300/50 | 22k | 0.022/50 | NO USE | QUY158-150Y
*8 MARK
VERSION | C523
C20/C30/C40 J/C EE | 100/25
OTHER | 47/25
FAN MOTOR
QAR0377-001
CN371 QGA2501C1-02
FAN MOTOR STOP DETECTOR
LVA10569-B2
LVA10569-B3
5V_REG.
-7V_REG.
7V_REG.
PROTECT
SP RELAY
FAN ON
iFANSTOP
iP.ON
iPROTECT
PREVcc
ACON
LOW VOLTEAGE DETECTOR
CN502 QGB2510K2-14
POWER_CTL
POWERGND
PREGND
POWERGND
PROTECT
P.ON_SIG
+VL
-VL
+VH
-VH
TO CN273
CN101 QGA7901C1-02
MAINS PLUG
CN102 QGA7901C1-04
CN152 QGE3901A2-05
CN103 QGE3901A2-07
220-240V
127V
110V
T101
US/UY
CN102 QGA7901C1-02
CN103 QGE3901A2-04
T101
OTHER
CN151 QGA3901C1-05
Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

Printed circuit boards

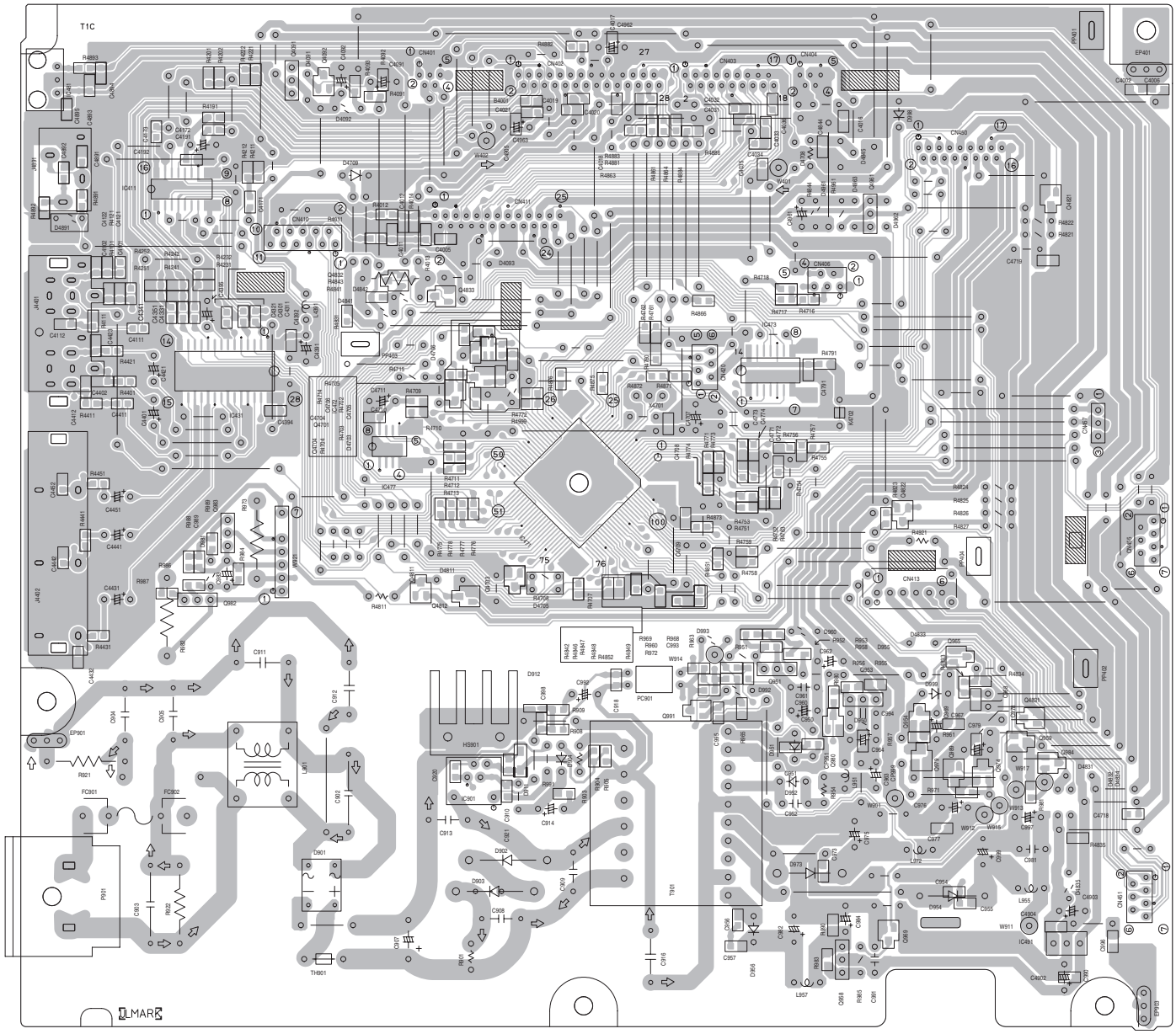
■ Main board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

(Operation board)



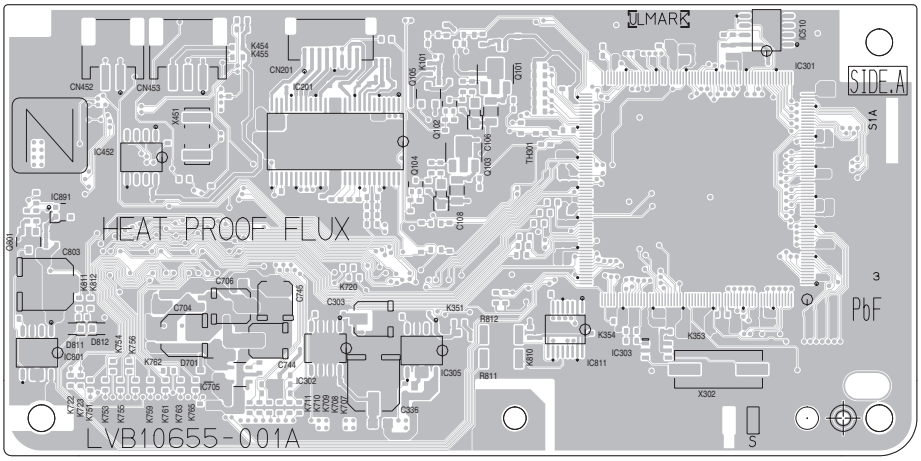
(Main board)



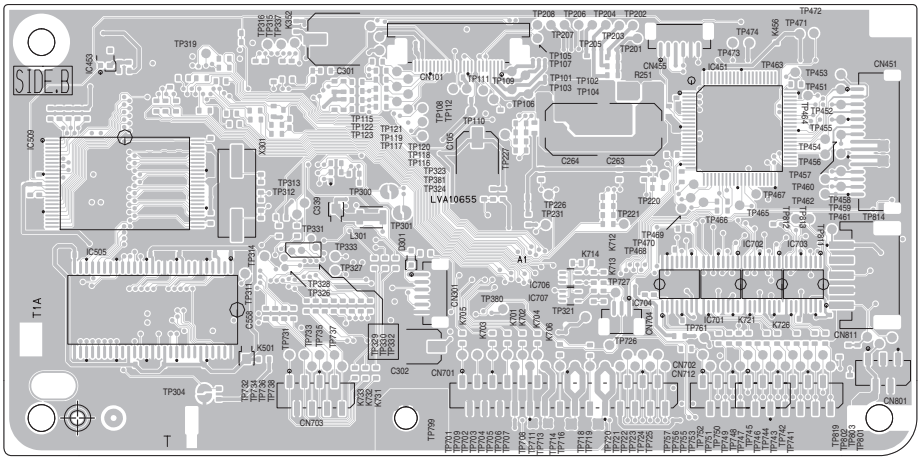
■ DVD servo control board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Forward side



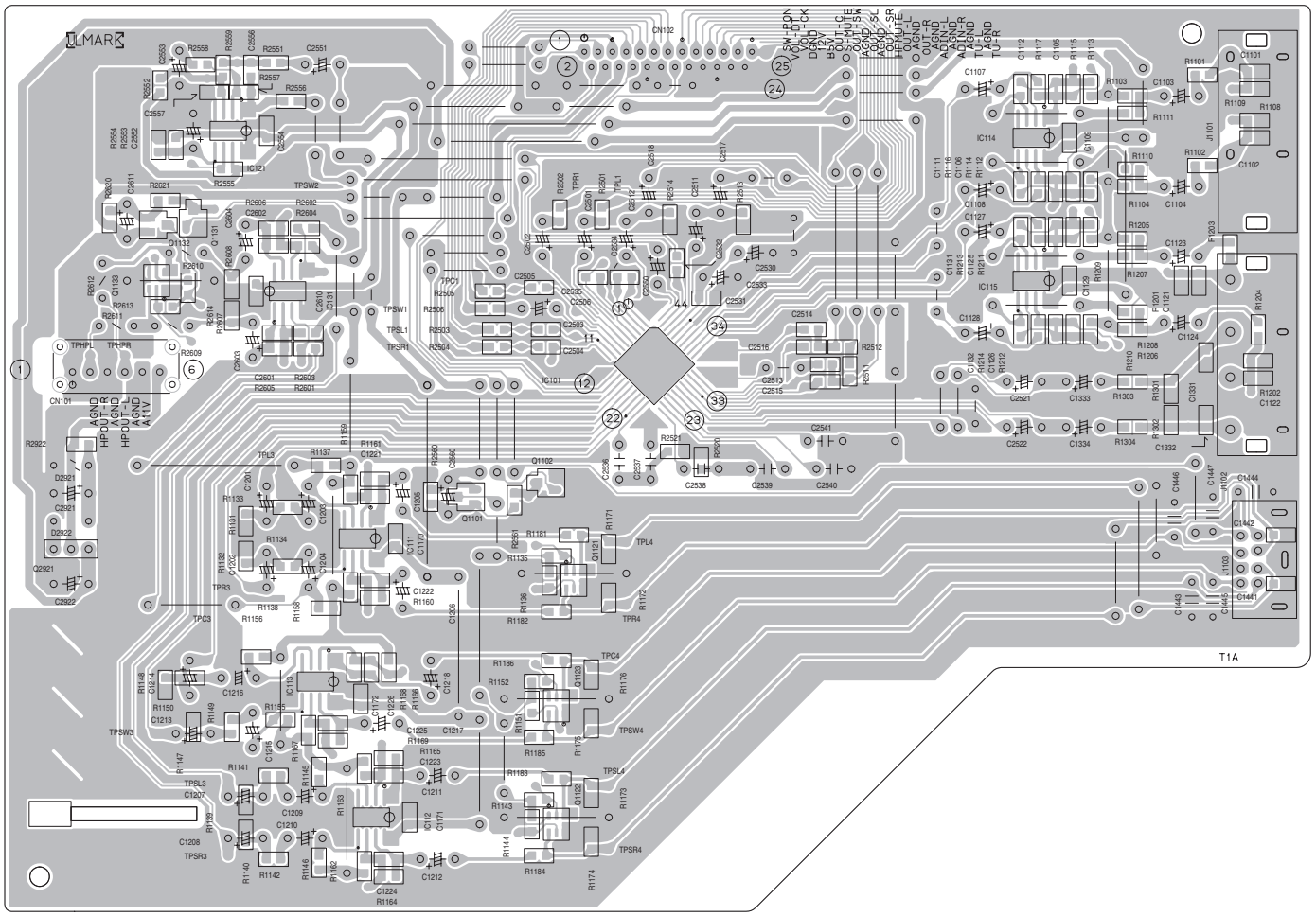
Reverse side

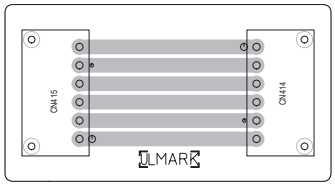


■ Audio board

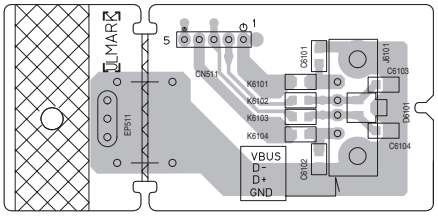
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

(Audio & Digitalinput board)



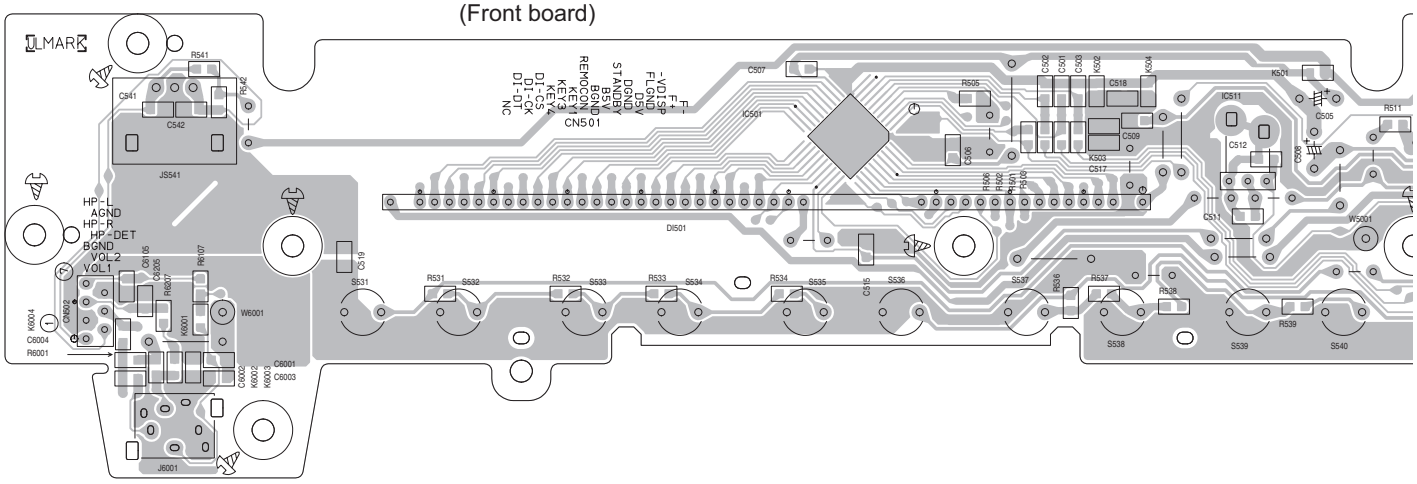


(Connection board)



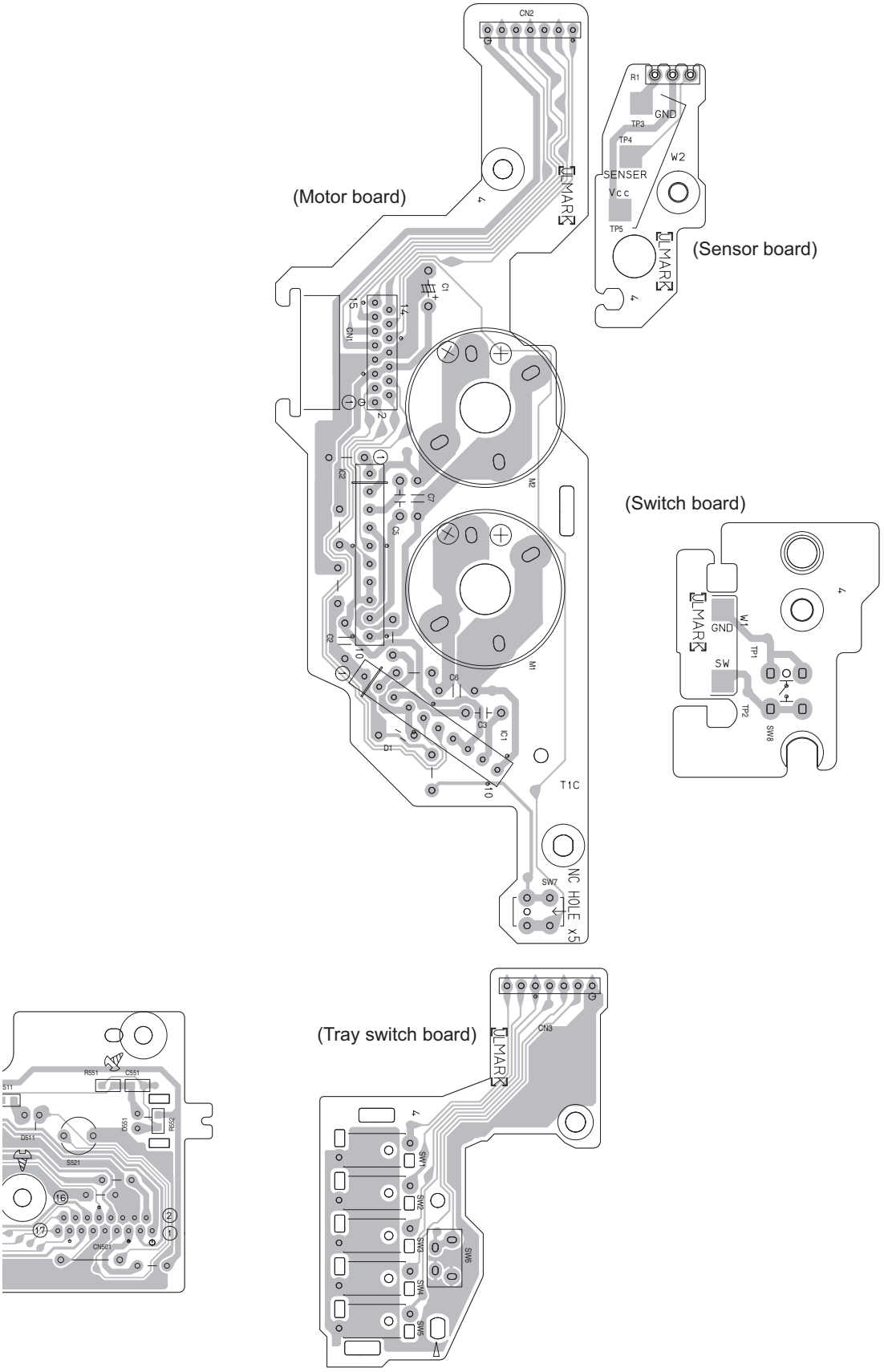
(USB jack board)

(Front board)



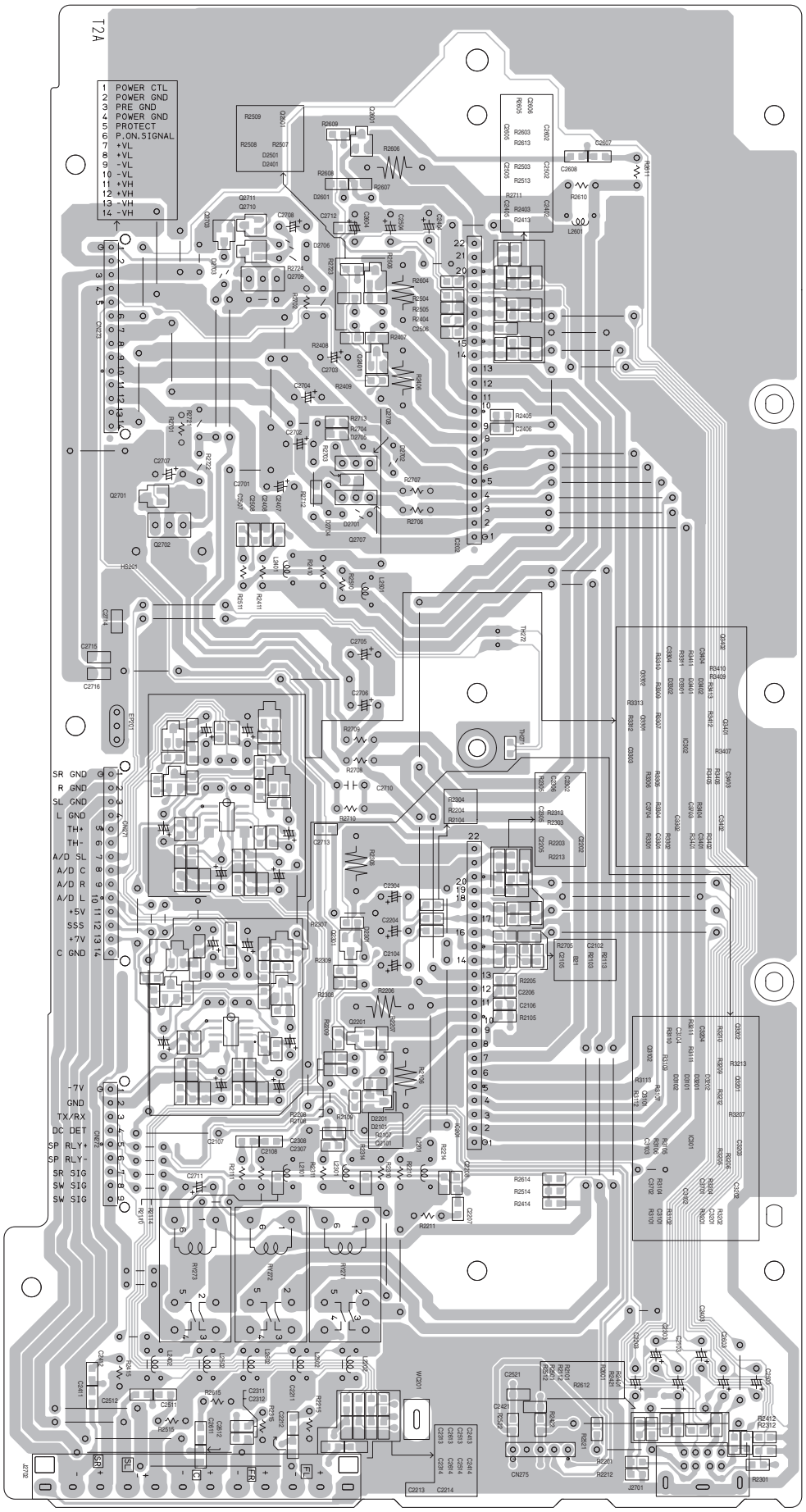
■ Loader board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



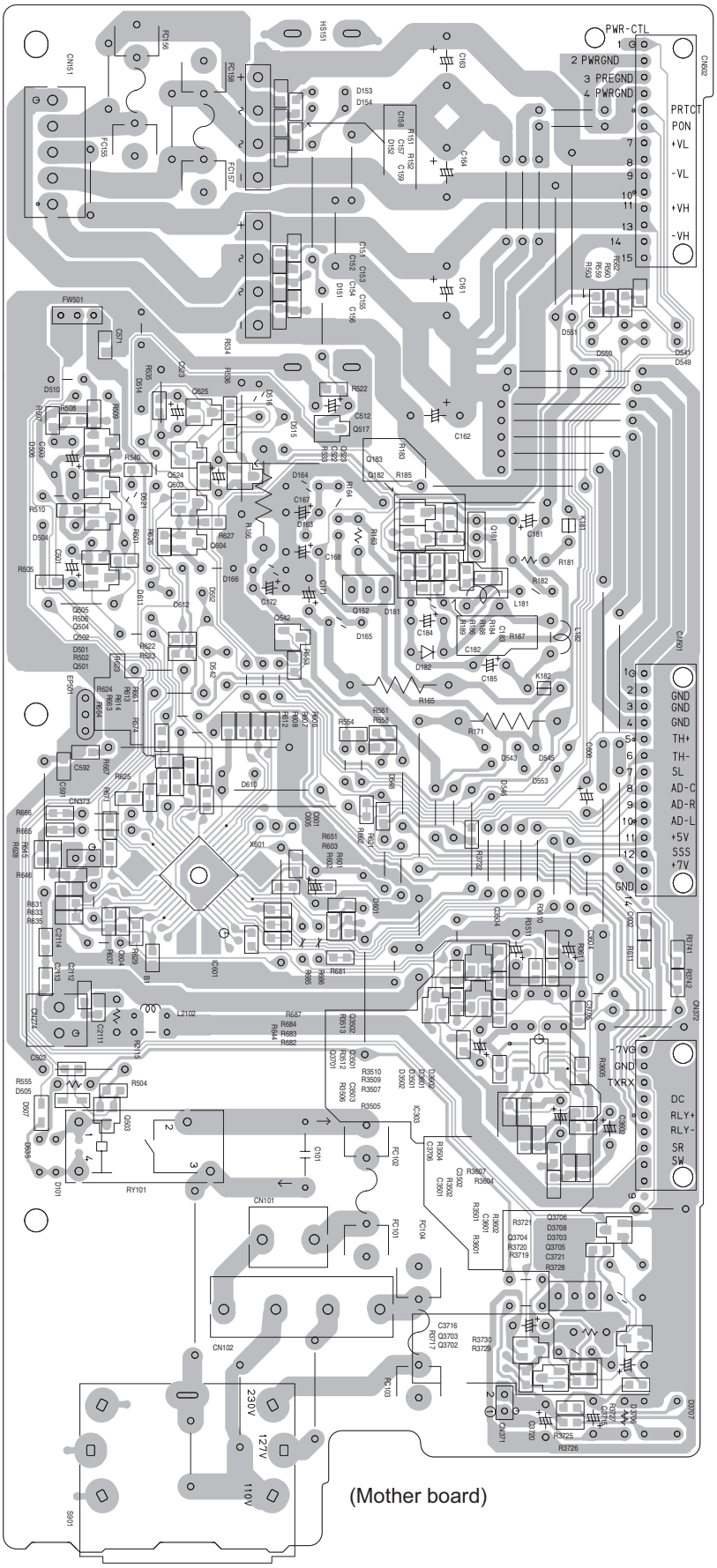
■ Speaker amp board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



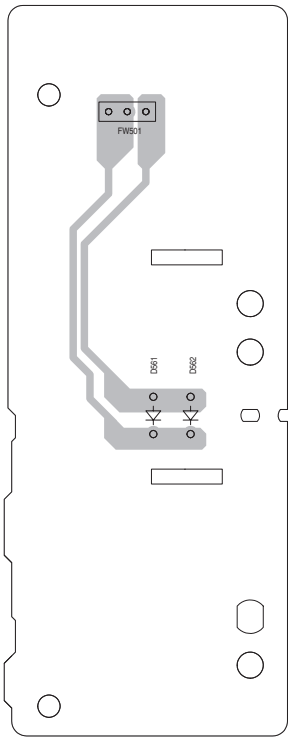
■ Speaker mother board

Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)



(Mother board)

(LED board)



JVC

Victor Company of Japan, Limited

Audio/Video Systems Category 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB506SCH)

Printed in Japan
VPT